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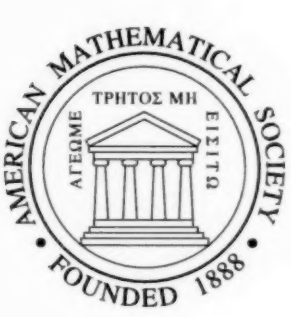
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Vienna ★ Die evolutionäre Erkenntnistheorie im Spiegel der Wissenschaften. (German) [Evolutionary epistemology as reflected in the sciences] **98g:00023**

00A35 Methodology of mathematics, didactics

Alcolea-Banegas, Jesús Proof as a way to increase understanding. (English summary) **98f:00011**
Arboleda, Luis Carlos (*with* Recalde, Luis Cornelio) The actual infinite and the techniques of the uncountably infinite: a methodological contribution. (Spanish) (*see* **98d:00018**)
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Borba, Marcelo C. Ethnomathematics and education [For the Learning of Math. **10** (1990), no. 1, 39–43]. (*see* **98b:01005**)
Brousseau, Guy ★ Theory of didactical situations in mathematics. (English summary)
Bunge, Mario In praise of intolerance to charlatanism in academia. (*see* **98i:00013**)
Clarkson, Philip C. *see* **Ellerton, Nerida F.**, (**98a:00004**)
(Cooper, Martin) *see* **Brousseau, Guy**
Devlin, Keith The logical structure of computer-aided mathematical reasoning. **98j:00010**
Ellerton, Nerida F. (*with* Clarkson, Philip C.) Language factors in mathematics teaching and learning. (English summary) (*see* **98a:00004**)
Figoli, Franklin The object orientation of intuitive reasoning. (English summary) (*see* **98d:00018**)
Gerdes, Paulus On culture, geometrical thinking and mathematics education [Ed. Stud. Math. **19** (1988), no. 3, 137–162]. (*see* **98b:01005**)
Hadamard, Jacques ★ The mathematician's mind. (English summary) **98j:00011**
Hanna, Gila (*with* Jahnke, Hans Niels) Proof and proving. (English summary) **98f:00012**
Jaffe, Arthur Proof and the evolution of mathematics. **98g:00009**
Jahnke, Hans Niels Mathematikgeschichte für Lehrer—Gründe und Beispiele. (German summary) [History of mathematics for teachers—reasons and examples]
— *see also* **Hanna, Gila**, **98f:00012**
Jiao, Ming Qi *see* **Zhong, Bao Dong**
(Johnson-Laird, P. N.) *see* **Hadamard, Jacques**, **98j:00011**
Jones, Todd Unification, reduction, and non-ideal explanations. (English summary)
Kahle, Dietrich Zur Rolle des Erlanger Programms im Geometrieunterricht. (German summary) [On the role of the Erlangen Program in the teaching of geometry]
Kapur, J. N. ★ Research methodology for scientists and engineers. (English summary)
Kelly, Kevin T. ★ The logic of reliable inquiry. **98f:00013**
Kirchherr, Walter (*with* Li, Ming[1]; Vitányi, Paul M. B.) The miraculous universal distribution. **98m:00015**
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Li, Ming[1] *see* **Kirchherr, Walter; et al.**, **98m:00015**
Mac Lane, Saunders Despite physicists, proof is essential in mathematics. **98h:00012**
Marquis, Jean-Pierre Abstract mathematical tools and machines for mathematics. (English summary) **98f:00014**
Mazur, Barry C. Conjecture. **98m:00016**
Ming, Qing He Reverse thinking in mathematical discovery and its esthetic value and function. (Chinese. English and Chinese summaries)
Moreno, Arley R. Style, pragmatics, philosophy. (Portuguese. English and Portuguese summaries)
Ortiz, C. E. Approximate truth and nonstandard analysis. (English summary) (*see* **98h:03084**)
Pinxten, Rik Applications in the teaching of mathematics and the sciences [revised version of Pinxten, I. van Dooren and F. Harvey, *Anthropology of space: explorations into the natural philosophy and semantics of the Navajo*, Chapter 5, Univ. Pennsylvania, Philadelphia, PA, 1983]. (*see* **98b:01005**)
Recalde, Luis Cornelio *see* **Arboleda, Luis Carlos**, (**98d:00018**)
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(Sutherland, Rosamund) *see* **Brousseau, Guy**
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Vollrath, Hans-Joachim Die Rolle des Didaktischen in der Grundlegung der Arithmetik. (German summary) [The role of didactics in the foundation of arithmetic]
Walkerdine, Valerie Difference, cognition, and mathematics education [For the Learning of Math. **10** (1990), no. 3, 51–56]. (*see* **98b:01005**)
(Warfield, Virginia) *see* **Brousseau, Guy**
Zhong, Bao Dong (*with* Jiao, Ming Qi) Mathematical debate. (Chinese. English and Chinese summaries)
Zhou, Shi Ran The characteristics and forms of mathematical thinking in images. (Chinese. English and Chinese summaries)

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Batanero, Carmen (*with* Green, David R.; Serrano, Luis Romero) Randomness, its meanings and educational implications. (English summary)
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Brown, James Robert Proofs and pictures. (English summary) **98g:03006**
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Bunch, Bryan ★ Mathematical fallacies and paradoxes. (English summary) **98f:00004**
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D'Ambrosio, Ubiratan The future of history: some methodological preoccupations. (Portuguese) (*see* **98d:00018**)
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Dudley, Underwood Is mathematics necessary?
(Euclid) *see* **Grattan-Guinness, Ivor**, **98b:01007a**
(Frankenstein, Marilyn) *see* **Ethnomathematics**, **98b:01005**
Garciadiego, Alejandro R. History of mathematical ideas: an introductory research manual. (Spanish. English and Spanish summaries) **98f:01004**
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— ★ Ethnomathematik. (German. German summary) [Ethnomathematics] **98j:01003**
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— *see also* **Errata: "Numbers, magnitudes, ratios, and proportions in Euclid's *Elements*: how did he handle them?"**, **98b:01007b**
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— Erratum: "Prove—once more and again" [Philos. Math. (3) **5** (1997), no. 2, 153–165; MR 98d:00004].
Kanamori, Akihiro The mathematical import of Zermelo's well-ordering theorem. **98k:01013**
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Kleiner, Israel (*with* Movshovitz-Hadar, Nitsa) Paradoxes in mathematics: history and pedagogy. **98f:01005**
— (*with* Movshovitz-Hadar, Nitsa) Proof: a many-splendored thing.
Krantz, Steven G. ★ Techniques of problem solving. (English summary) **98b:00002**
(Laborde, Colette) *see* **Handbook: Mathematics education**, **98a:00004**
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(Nobre, Sergio) *see* **Meeting: International Study Group on Relations Between History and Pedagogy of Mathematics**, **98d:00018**
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"Numbers, magnitudes, ratios, and proportions in Euclid's *Elements*: how did he handle them?" Erratum: "Numbers, magnitudes, ratios, and proportions in Euclid's *Elements*: how did he handle them?" [Historia Math. **23** (1996), no. 4, 355–375; MR 98b:01007a] by I. Grattan-Guinness. **98b:01007b**
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00A69 General applied mathematics {For physics, see 00A79 and Sections 70 through 86.}

Anger, Gottfried Does there exist a systems theory for technical systems, the systems of nature and the Universe? (English summary) (*see* **98e:00024**)
— Zur Leistungsfähigkeit der Theorie in den Naturwissenschaften, der Technik und der Medizin—praxis cum theoria. [On the power of theory in the natural sciences, technology and in medicine—praxis cum theoria] **98m:00018**
Anikonov, Yu. E. ★ Formulas in inverse and ill-posed problems. **98h:00014**
Bensoussan, Alain New trends in applied mathematics. (English summary) (*see* **98h:00042**)
Chilla, Benigna Virtual movement through planar geometry: fundamental concepts in visual art. (English summary)
Crapo, Henry Structural topology, or The fine art of rediscovery.
(Daudelin, Charles) *see* **Structural topology in art, 98h:00018**
(Dickson, Stewart) *see* **Structural topology in art, 98h:00018**
(Fredenthal, Robinson) *see* **Structural topology in art, 98h:00018**
Fukuda, Hiroshi (*with* Saito, Tomoko; Nakamura, Gisaku) Classification and computer generation of necktie patterns. (English summary)
Gelbrich, G. (*with* Giesche, K.) Fractal Escher salamanders and other animals.
Giesche, K. *see* **Gelbrich, G.**
Goss, Larry D. Presentation of visualization problems using an expanded coded plan technique. (English summary)
(Granche, Pierre) *see* **Structural topology in art, 98h:00018**
Haberman, Richard ★ Mathematical models. (English summary) **98m:00019**
Haken, Hermann Visions of synergetics. (English summary) (*see* **98f:58007**)
Hannabuss, Keith Sound and symmetry.
Holmes, Philip J. Metaphor and models in science and art. (English summary) (*see* **98f:00020**)
Ibarra, Andoni (*with* Mormann, Thomas) ★ Representaciones en la ciencia. (Spanish. Spanish summary) [Representations in science]
Isihara, Paul (*with* Knapp, M.) Basic $\mathbf{Z}_{12}$ analysis of musical chords. (English summary) **98f:00015**
Knapp, M. *see* **Isihara, Paul, 98f:00015**
Lam, Lui Active walks: pattern formation, self-organization, and complex systems. (*see* **98b:00013**)
— *see also* **Introduction to nonlinear physics, 98b:00013**
Levy, Silvio Experimentelle Mathematik in Beispielen. (German summary) [Experimental mathematics in examples] **98h:00015**
Lin, Yi[3] (*with* Wang, Shu Tang[1]) Developing a mathematical theory of computability which speaks the language of levels. (English summary)
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Mainzer, Klaus ★ Thinking in complexity. (English summary) **98g:00010**
Mandelbrot, Benoît B. ★ La geometría fractal de la naturaleza. (Spanish. Spanish summary) [The fractal geometry of nature] **98g:00011**
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Nakamura, Gisaku *see* **Fukuda, Hiroshi; et al.**
Nehaniv, Chrystopher L. Algebra and formal models of understanding. (English summary) (*see* **98d:00023**)
Neuwirth, Erich ★ Musical temperaments. (English summary) **98h:00016**
Olivares, Alberto E. A note on applied mathematics. I. (Spanish)
(Perry, Charles) *see* **Structural topology in art, 98h:00018**
Prigogine, Ilya Non-linear science and the laws of nature. (English summary) (*see* **98f:58007**)
Read, R. C. Combinatorial problems in the theory of music. (English summary) **98h:00017**
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(Schurz, Gerhard) *see* **Law and prediction in the light of chaos research, 98b:00014**
Silin, A. A. Entropy, probability and information. (Russian. Russian summary) **98e:00008**
(Silverman, Arthur) *see* **Structural topology in art, 98h:00018**
(Steblin, Rita) *see* **Neuwirth, Erich, 98h:00016**
Stewart, Ian N. ★ Life's other secret. **98m:00020**
Tsymbal, L. A. ★ Синергетика информационных процессов. (Russian. Russian summary) [The synergetics of information processes] **98c:00009**
Van Loan, Charles If Copernicus had a computer.
Wang, Sheng Pei (*with* Xu, Zhong Ling[2]) Mathematics and agriculture. I. (Chinese. Chinese summary)
Wang, Shu Tang[1] *see* **Lin, Yi[3]**
(Weingartner, Paul) *see* **Law and prediction in the light of chaos research, 98b:00014**
Whitty, Robin Applied mathematics: problem solving or theory building? (English summary)
Xu, Zhong Ling[2] *see* **Wang, Sheng Pei**

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Arecchi, F. Tito Complexity in science: models and metaphors. (*see* **98g:00022**)
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Atiyah, Michael F. Mathematics and the physical world. (Finnish) (*see* **98d:00001**)
Bailhache, Patrice Cordes vibrantes et consonances chez Beeckman, Mersenne et Galilée. [Vibrating strings and consonance in Beeckman, Mersenne and Galileo] **98a:01009**
Beltrami, Edward ★ Mathematics for dynamic modeling. **98g:00012**
Boyé, Anne Sur l'*Essai d'une nouvelle théorie de la musique* de L. Euler. [On L. Euler's *Essay of a new theory of music*] **98a:01012**
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Castillo, Gilbert (*with* Kreinovich, Vladik) Was Stonehenge an observatory? (English summary)
Cromwell, Peter R. ★ Polyhedra. **98j:52017**
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Dawson, C. Bryan A better draft: fair division of the talent pool. **98a:90012**
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Diacu, Florin (*with* Holmes, Philip J.) ★ Celestial encounters. (English summary) **98e:70006**
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Knobloch, Eberhard Desargues, Mersenne et Kircher: la musique et les mathématiques. [Desargues, Mersenne and Kircher: music and mathematics] **98m:01007**
Kondo, Kazuo ★ Three phases of epistemological penetration to nature.
Körner, T. W. ★ The pleasures of counting. (English summary) **98j:00013**

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00A71 Theory of mathematical modeling

Beltrami, Edward ★ Mathematics for dynamic modeling. **98g:00012**
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00A72 General methods of simulation

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00A99 Miscellaneous topics

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00Bxx Conference proceedings and collections of papers

00B05 Collections of abstracts of lectures

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00B10 Collections of articles of general interest

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(Pekonen, Osmo) *see* **In the forest of symbols. 98d:00001**

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00B15 Collections of articles of miscellaneous specific content

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(Vinogradov, A. M.) *see* **Algebraic aspects of differential calculus. 98k:00006**
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Aranđelovac ★ 4th Symposium on Mathematical Analysis and Its Applications. **98k:00020**
Athens ★ Proceedings of the Second World Congress of Nonlinear Analysts, Part 6. **98h:00034**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 1. **98i:00027**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 2. **98i:00028**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 3. **98i:00029**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 4. **98i:00030**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 7. **98i:00032**
Athens, 1996 ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 5. **98i:00031**
Atlanta, GA ★ Proceedings of the Seventh International Conference on Random Structures and Algorithms. **98i:00026**
— ★ Advances in differential equations and mathematical physics. **98i:00016**
Aubière ★ Séminaire d'Analyse. 1993–1994. (French) [Seminar on Analysis. 1993–1994] **98a:00009**
— ★ Séminaire d'Analyse. 1994–1995. (French) [Seminar on Analysis. 1994–1995] **98c:00016**
Austin, TX ★ Symposium on Advances in Computational Mechanics. Vol. 5. **98m:00024**
Baltimore, MD ★ Algebraic analysis, geometry, and number theory. **98d:00013**
Bandung ★ Differential equations. **98k:00012**
Bangalore ★ Recent advances in mechanical engineering. **98i:00034**
Benešova Hora ★ 24th Winter School on Abstract Analysis.
Birthday:
de Guzmán, Miguel ★ Proceedings of the conference dedicated to Professor Miguel de Guzmán. **98i:00025**

Birthday: (*cont'd.*)
Serrin, James B., Jr. ★ Nonlinear analysis and continuum mechanics. **98h:00030**
Bispectral problem ★ The bispectral problem. **98k:00011**
Blumenau ★ Meeting of the International Study Group on Relations Between History and Pedagogy of Mathematics. **98d:00018**
Boston, MA ★ Proof and progress in mathematics. **98c:00014**
Bristol ★ Idempotency. **98i:00020**
Budapest ★ Differential equations and its applications. **98e:00018**
Budva ★ PRIM '96. **98h:00033**
Buenos Aires ★ Wavelet theory and harmonic analysis in applied sciences. **98b:00035**
Burnaby, BC ★ Organic mathematics. **98f:00027**
Cairo ★ 2nd National Conference of Mathematics on Algebra and its Applications. **98g:00017**
Cambridge, MA ★ Current developments in mathematics, 1995. **98d:00016**
Campinas ★ Geometry, topology and physics. **98k:00014**
Cholin ★ Topological and variational methods for nonlinear boundary value problems. **98e:00023**
Clausthal ★ Nonlinear, deformed and irreversible quantum systems. **98b:00026**
Cleveland, OH ★ PSA 1996. Part II. **98k:00019**
Colloquia Mathematica Societatis János Bolyai ★ Differential equations and its applications. **98e:00018**
Colloquium:
Applied Mathematics ★ Proceedings of the 3rd Catalan Days on Applied Mathematics. **98m:00023**
— ★ Proceedings of the 2nd Catalan Days on Applied Mathematics. **98i:00024**
Differential Equations ★ Proceedings of the Third International Colloquium on Differential Equations. **98a:00007**
— ★ Proceedings of the Fourth International Colloquium on Differential Equations. **98c:00012**
— ★ Proceedings of the Fifth International Colloquium on Differential Equations. **98c:00013**
— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
Differential Equations and Applications ★ Differential equations and its applications. **98e:00018**
Graphs and Optimization ★ Second International Colloquium on Graphs and Optimization. **98b:00021**
Quantum Groups ★ Quantum groups and integrable systems. II. **98a:00008**
Combinatorics ★ Combinatorics. **98e:00015**
Combinatorics and physics ★ Combinatorics and physics. **98h:00025**
Complex systems and binary networks ★ Complex systems and binary networks. **98f:00022**
Computational mathematics and information science ★ Вычислительная математика и информатика. (Russian) [Computational mathematics and information science] **98b:00022**
Computational tools of complex systems ★ Computational tools of complex systems. II. **98g:00016**
— ★ Computational tools of complex systems. III. **98i:00017**
Computer algebra ★ Computer algebra. **98e:00016**
Conference:
Advances in Mechanical Engineering ★ Recent advances in mechanical engineering. **98i:00034**
African-American Researchers in the Mathematical Sciences ★ African Americans in mathematics. **98e:00012**
Algebra and Analysis ★ Algebra and analysis. **98b:00020**
Algebraic Analysis, Geometry, and Number Theory ★ Algebraic analysis, geometry, and number theory. **98d:00013**
Algebraic Combinatorics ★ Daisûteki kumiawase ron. [Algebraic combinatorics] **98e:00013**
Applications of Combinatorial Mathematics ★ Applications of combinatorial mathematics. **98d:00014**
Applied Mathematics ★ PRIM '96. **98h:00033**
Combinatorics '94 ★ Combinatorics. **98e:00015**
Computational Modelling of Free and Moving Boundaries ★ Moving boundaries. IV. **98k:00017**
Contributions to General Algebra ★ Contributions to general algebra. 9. **98g:00020**
Different Aspects of Differentiability ★ Proceedings of the Conference "Different Aspects of Differentiability". II. **98g:00030**
Differential Equations ★ Differential equations. **98k:00012**
Differential Equations and Computational Simulations ★ Differential equations and computational simulations. II. **98g:00021**
Differential Equations and Mathematical Physics ★ Advances in differential equations and mathematical physics. **98i:00016**
Finite- and Infinite-Dimensional Dynamical Systems ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Fluctuations, Nonlinearity and Disorder in Condensed Matter and Biological Physics ★ Fluctuations, nonlinearity and disorder. **98k:00013**
Function Spaces, Differential Operators and Nonlinear Analysis ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
Functional Analysis and Applications ★ Functional analysis with current applications in science, technology and industry. **98i:00018**
Fuzzy Sets Theory and its Applications ★ Fuzzy sets. **98i:00019**
Harmonic Analysis and Partial Differential Equations ★ Proceedings of the conference dedicated to Professor Miguel de Guzmán. **98i:00025**
Integral Methods in Science and Engineering ★ Integral methods in science and engineering. Vol. 1. **98i:00021**
— ★ Integral methods in science and engineering. Vol. 2. **98i:00022**
Inverse Problems in Medical Imaging and Nondestructive Testing ★ Inverse problems in medical imaging and nondestructive testing. **98k:00016**
Inverse Problems of Wave Propagation and Diffraction ★ Inverse problems of wave propagation and diffraction. **98h:00027**

Conference: (*cont'd.*)
Mathematical ★ Proceedings of the Mathematical Conference in Priština 1994. **98b:00030**
— ★ Proceedings of the II Mathematical Conference in Priština. **98b:00031**
Mathematics ★ Proceedings of the 26th Annual Iranian Mathematics Conference. Vol. 2. **98h:00035**
— ★ International Mathematics Conference '94. **98a:00006**
Mathematics—Algebra and its Applications ★ 2nd National Conference of Mathematics on Algebra and its Applications. **98g:00017**
Mathematics in Industry ★ Progress in industrial mathematics at ECMI 96. **98e:00021**
Mathematics in Industry and Medicine ★ Wavelet theory and harmonic analysis in applied sciences. **98b:00035**
Mathematics of Thermal Convection ★ Nettairyū no sūri. (Japanese) [Mathematics of thermal convection] **98f:00025**
Noncommutative Algebra, Quantum Groups and Invariants ★ Algèbre non commutative, groupes quantiques et invariants. [Noncommutative algebra, quantum groups and invariants] **98g:00028**
Nonlinear Dynamics, Chaotic and Complex Systems ★ International Conference on Nonlinear Dynamics, Chaotic and Complex Systems. **98g:00018**
Nonlinear Problems in Aviation and Aerospace ★ First International Conference on Nonlinear Problems in Aviation and Aerospace. **98b:00023**
Operator Algebras and Quantum Field Theory ★ Operator algebras and quantum field theory. **98h:00032**
Operator Theory for Complex and Hypercomplex Analysis ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Optimization Methods in Partial Differential Equations ★ Optimization methods in partial differential equations. **98d:00021**
Ordinary and Partial Differential Equations ★ Ordinary and partial differential equations. Vol. V. **98k:00018**
Pacific Rim Geometry ★ Geometry from the Pacific Rim. **98c:00011**
Perspectives on Quantization ★ Perspectives on quantization. **98g:00029**
Physics and Combinatorics ★ Combinatorics and physics. **98h:00025**
Random Structures and Algorithms ★ Proceedings of the Seventh International Conference on Random Structures and Algorithms. **98i:00026**
Semigroups, Automata and Languages ★ Semigroups, automata and languages. **98f:00029**
Semigroups, Formal Languages and Computer Systems ★ Hangun, keishiki gengo to keisanki shisutemu. [Semigroups, formal languages and computer systems] **98d:00023**
Serrin, James B., Jr. ★ Nonlinear analysis and continuum mechanics. **98h:00030**
Smart Structures and Materials: Mathematics and Control in Smart Structures ★ Smart structures and materials 1997: mathematics and control in smart structures. **98d:00024**
Stochastic Geometry, Convex Bodies and Empirical Measures ★ II International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". **98h:00026**
Variational Problems in Applied Mathematics ★ Problèmes variationnels en mathématiques appliquées. (French) [Variational problems in applied mathematics] **98g:00032**
Waves and Stability in Continuous Media ★ Proceedings of the VIII International Conference on Waves and Stability in Continuous Media. Part I. **98b:00028**
— ★ Proceedings of the VIII International Conference on Waves and Stability in Continuous Media. Part II. **98b:00029**
Congress:
Fuzzy Logic and Technology ★ Fifth Spanish Congress on Fuzzy Logic and Technology. **98g:00019**
International Fuzzy Systems Association ★ Fuzzy sets: Where do we stand? Where do we go? **98f:00024**
Nonlinear Analysts ★ Proceedings of the Second World Congress of Nonlinear Analysts, Part 6. **98h:00034**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 1. **98i:00027**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 2. **98i:00028**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 3. **98i:00029**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 4. **98i:00030**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 5. **98i:00031**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 7. **98i:00032**
Constraint theory and quantization methods ★ Constraint theory and quantization methods. **98d:00015**
Contemporary Mathematics ★ Optimization methods in partial differential equations. **98d:00021**
— ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
— ★ Perspectives on quantization. **98g:00029**
— ★ Advances in differential equations and mathematical physics. **98i:00016**
Contributions to general algebra ★ Contributions to general algebra. 9. **98g:00020**
Crete ★ Fluctuations, nonlinearity and disorder. **98k:00013**
Current developments in mathematics ★ Current developments in mathematics, 1995. **98d:00016**
Cyclic cohomology and noncommutative geometry ★ Cyclic cohomology and noncommutative geometry. **98e:00017**
Daytona Beach, FL ★ First International Conference on Nonlinear Problems in Aviation and Aerospace. **98b:00023**
Differential equations ★ Differential equations. **98k:00012**
Differential equations and computational simulations ★ Differential equations and computational simulations. II. **98g:00021**
Differential equations and its applications ★ Differential equations and its applications. **98e:00018**

Direct and inverse electromagnetic scattering ★ Direct and inverse electromagnetic scattering. **98b:00024**
Dundee ★ Ordinary and partial differential equations. Vol. V. **98k:00018**
Dynamics of nonlinear and disordered systems ★ Dynamics of nonlinear and disordered systems. **98f:00023**
El Escorial ★ Proceedings of the conference dedicated to Professor Miguel de Guzmán. **98i:00025**
Emergence of complexity in mathematics, physics, chemistry and biology ★ The emergence of complexity in mathematics, physics, chemistry and biology. **98g:00022**
Evolutionäre Erkenntnistheorie im Spiegel der Wissenschaften ★ Die evolutionäre Erkenntnistheorie im Spiegel der Wissenschaften. (German) [Evolutionary epistemology as reflected in the sciences] **98g:00023**
Evolutionary epistemology as reflected in the sciences ★ Die evolutionäre Erkenntnistheorie im Spiegel der Wissenschaften. (German) [Evolutionary epistemology as reflected in the sciences] **98g:00023**
Ferrara ★ Nonlinear analysis and continuum mechanics. **98h:00030**
Festschrift:
  Kastler, Daniel ★ Operator algebras and quantum field theory. **98h:00032**
Finite- and infinite-dimensional dynamics ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Flavors of geometry ★ Flavors of geometry. **98g:00024**
Fluctuations, nonlinearity and disorder ★ Fluctuations, nonlinearity and disorder. **98k:00013**
Fort Lauderdale, FL ★ Advances in the understanding and use of conditional independence. **98e:00011**
Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
Functional analysis with current applications in science, technology and industry ★ Functional analysis with current applications in science, technology and industry. **98i:00018**
Fuzzy sets ★ Fuzzy sets. **98i:00019**
Fuzzy sets: Where do we stand? Where do we go? ★ Fuzzy sets: Where do we stand? Where do we go? **98f:00024**
Gainesville, FL ★ Stochastic processes in astrophysics. **98f:00030**
Gebze ★ Direct and inverse electromagnetic scattering. **98b:00024**
Geometry from the Pacific Rim ★ Geometry from the Pacific Rim. **98c:00011**
Geometry, topology and physics ★ Geometry, topology and physics. **98k:00014**
Ghent ★ Moving boundaries. IV. **98k:00017**
Granada ★ Fourth Granada Lectures in Computational Physics. **98h:00028**
Group theory and combinatorial mathematics ★ Gun ron to kumiawase sūgaku. [Group theory and combinatorial mathematics] **98k:00015**
Guanajuato ★ Complex systems and binary networks. **98f:00022**
Idempotency ★ Idempotency. **98i:00020**
Innovation in mathematics ★ Innovation in mathematics. **98g:00025**
Institute:
  Nonlinear Waves ★ Nonlinear waves. **98h:00031**
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Inverse problems in medical imaging and nondestructive testing ★ Inverse problems in medical imaging and nondestructive testing. **98k:00016**
Inverse problems in wave propagation ★ Inverse problems in wave propagation. **98g:00026**
Inverse problems of wave propagation and diffraction ★ Inverse problems of wave propagation and diffraction. **98h:00027**
Investigations on applied functional analysis ★ Ōyō kansū kaiseki no kenkyū. (Japanese) [Investigations on applied functional analysis] **98e:00020**
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Kaohsiung ★ International Mathematics Conference '94. **98a:00006**
Kazan ★ Algebra and analysis. **98b:00020**
Kerman ★ Proceedings of the 26th Annual Iranian Mathematics Conference. Vol. 2. **98h:00035**
Kinshasa ★ Problèmes variationnels en mathématiques appliquées. (French) [Variational problems in applied mathematics] **98g:00032**
Kyoto ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Lambrecht ★ Uncertainty: models and measures. **98e:00024**
Lattice dynamics ★ Lattice dynamics. **98b:00025**
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— ★ Fourth Granada Lectures in Computational Physics. **98h:00028**
Lectures:
  Chebyshev, Pafnutii L'vovich ★ Чебышевские чтения—1994. (Russian) [Chebyshev Lectures—1994] **98i:00023**
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  Guanajuato ★ Complex systems and binary networks. **98f:00022**
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Linz ★ Contributions to general algebra. 9. **98g:00020**
Liptovský Ján ★ Real functions '94. **98d:00022**
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Lisbon ★ Trends in applications of mathematics to mechanics. **98d:00025**
Lleida ★ Proceedings of the 3rd Catalan Days on Applied Mathematics. **98m:00023**
Lyngby ★ Progress in industrial mathematics at ECMI 96. **98e:00021**
Madrid ★ Modelos matemáticos en física de plasmas. [Mathematical models in plasma physics] **98h:00029**
Marseilles ★ Combinatorics and physics. **98h:00025**
Mathematical models in plasma physics ★ Modelos matemáticos en física de plasmas. [Mathematical models in plasma physics] **98h:00029**
Mathematics of thermal convection ★ Nettairyū no sūri. (Japanese) [Mathematics of thermal convection] **98f:00025**
Meeting:
  Applied Mathematics ★ Proceedings of the 3rd Catalan Days on Applied Mathematics. **98m:00023**
  — ★ Proceedings of the 2nd Catalan Days on Applied Mathematics. **98i:00024**
  International Study Group on Relations Between History and Pedagogy of Mathematics ★ Meeting of the International Study Group on Relations Between History and Pedagogy of Mathematics. **98d:00018**
  Mathematicians ★ IX. Mathematikertreffen Zagreb-Graz. [IXth Zagreb-Graz Meeting of Mathematicians] **98d:00019**
  Philosophy of Science Association ★ PSA 1996. Part II. **98k:00019**
Memorial Issue:
  Itzykson, Claude ★ Combinatorics and physics. **98h:00025**
  Yoshizawa, Taro ★ Workshop on Differential Equations and Nonlinear Analysis. **98d:00026**
Mexico City ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Minneapolis, MN ★ Stochastic models in geosystems. **98e:00022**
— ★ Inverse problems in wave propagation. **98g:00026**
— ★ Quasiclassical methods. **98g:00031**
— ★ Wave propagation in complex media. **98g:00033**
Mississippi State, MS ★ Differential equations and computational simulations. II. **98g:00021**
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Montreal, PQ ★ Advances in mathematical sciences: CRM's 25 years. **98f:00020**
— ★ The bispectral problem. **98k:00011**
Moscow ★ Вычислительная математика и информатика. (Russian) [Computational mathematics and information science] **98b:00022**
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New frontiers in algebras, groups and geometries ★ New frontiers in algebras, groups and geometries. **98d:00020**
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Oulu ★ Integral methods in science and engineering. Vol. 1. **98i:00021**
— ★ Integral methods in science and engineering. Vol. 2. **98i:00022**
Oxford ★ Applications of combinatorial mathematics. **98d:00014**
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— ★ Proceedings of the VIII International Conference on Waves and Stability in Continuous Media. Part II. **98b:00029**
Paris ★ Lattice dynamics. **98b:00025**
Paseky nad Jizerou ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
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Philadelphia, PA ★ ACM Symposium on Computational Geometry.
Piscataway, NJ ★ African Americans in mathematics. **98e:00012**
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— ★ Proceedings of the Fourth International Colloquium on Differential Equations. **98c:00012**
— ★ Proceedings of the Fifth International Colloquium on Differential Equations. **98c:00013**
— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
Porto ★ Semigroups, automata and languages. **98f:00029**
Prague ★ Quantum groups and integrable systems. II. **98a:00008**
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Priština ★ Proceedings of the Mathematical Conference in Priština 1994. **98b:00030**
— ★ Proceedings of the II Mathematical Conference in Priština. **98b:00031**
Problèmes variationnels en mathématiques appliquées ★ Problèmes variationnels en mathématiques appliquées. (French) [Variational problems in applied mathematics] **98g:00032**
Proceedings:
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  — ★ Proceedings of the 2nd Catalan Days on Applied Mathematics. **98i:00024**

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— ★ Proceedings of the Fifth International Colloquium on Differential Equations. **98c:00013**
— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
Conference dedicated to Professor Miguel de Guzmán ★ Proceedings of the conference dedicated to Professor Miguel de Guzmán. **98i:00025**
Conference "Different Aspects of Differentiability" ★ Proceedings of the Conference "Different Aspects of Differentiability". II. **98g:00030**
Conference on Random Structures and Algorithms ★ Proceedings of the Seventh International Conference on Random Structures and Algorithms. **98i:00026**
Conference on Waves and Stability in Continuous Media ★ Proceedings of the VIII International Conference on Waves and Stability in Continuous Media. Part I. **98b:00028**
— ★ Proceedings of the VIII International Conference on Waves and Stability in Continuous Media. Part II. **98b:00029**
Congress of Nonlinear Analysts ★ Proceedings of the Second World Congress of Nonlinear Analysts, Part 6. **98h:00034**
— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 1. **98i:00027**
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— ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 7. **98i:00032**
Mathematical Conference ★ Proceedings of the Mathematical Conference in Priština 1994. **98b:00030**
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Mathematics Conference ★ Proceedings of the 26th Annual Iranian Mathematics Conference. Vol. 2. **98h:00035**
School "Geometry and Physics" ★ The Proceedings of the 15th Winter School "Geometry and Physics". **98b:00032**
— ★ The Proceedings of the 16th Winter School "Geometry and Physics".
Symposium on Mathematical Physics ★ Proceedings of the XXIX Symposium on Mathematical Physics. **98i:00033**
Symposium on Non-linear Analysis ★ Proceedings of the First Symposium on Non-linear Analysis. **98b:00033**
Workshop on Cosmology and Time Asymmetry ★ Proceedings from the Workshop on Cosmology and Time Asymmetry. **98h:00036**
Progress in industrial mathematics at ECMI 96 ★ Progress in industrial mathematics at ECMI 96. **98e:00021**
Proof and progress in mathematics ★ Proof and progress in mathematics. **98c:00014**
PSA ★ PSA 1996. Part II. **98k:00019**
Quantum groups and integrable systems ★ Quantum groups and integrable systems. II. **98a:00008**
Quantum groups and quantum spaces ★ Quantum groups and quantum spaces. **98f:00028**
Quantum information theory and open systems ★ Ryōshi jōhō riron to kaihō kei. (Japanese) [Quantum information theory and open systems] **98h:00037**
— ★ Ryōshi jōhō riron to kaihō kei. (Japanese) [Quantum information theory and open systems] **98h:00038**
Quantum stochastic analysis and related fields ★ Ryōshi kakuritsu kaiseki to sono shūhen. [Quantum stochastic analysis and related fields] **98b:00034**
Quasiclassical methods ★ Quasiclassical methods. **98g:00031**
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Real functions '94 ★ Real functions '94. **98d:00022**
Recent advances in mechanical engineering ★ Recent advances in mechanical engineering. **98i:00034**
Reims ★ Algèbre non commutative, groupes quantiques et invariants. [Noncommutative algebra, quantum groups and invariants] **98g:00028**
Research on the theory and applications of computer algebra ★ Sūshiki shori ni okeru riron to ōyō kenkyū. (Japanese) [Research on the theory and applications of computer algebra] **98h:00039**
Rocquencourt ★ Statistical mechanics of large networks. **98i:00035**
Rome ★ Operator algebras and quantum field theory. **98h:00032**
— ★ Combinatorics. **98e:00015**
Rovaniemi ★ Innovation in mathematics. **98g:00025**
Saint-Louis ★ Computer algebra. **98e:00016**
Sakado ★ Proceedings of the First Symposium on Non-linear Analysis. **98b:00033**
San Diego, CA ★ Smart structures and materials 1997: mathematics and control in smart structures. **98d:00024**
São Paulo ★ Fuzzy sets: Where do we stand? Where do we go? **98f:00024**
Sapporo ★ Nonlinear waves. **98h:00031**
School:
Abstract Analysis ★ 24th Winter School on Abstract Analysis.
Geometry and Physics ★ The Proceedings of the 15th Winter School "Geometry and Physics". **98b:00032**
— ★ The Proceedings of the 16th Winter School "Geometry and Physics".
Real Functions Theory ★ Real functions '94. **98d:00022**
Semigroups, automata and languages ★ Semigroups, automata and languages. **98f:00029**
Semigroups, formal languages and computer systems ★ Hangun, keishiki gengo to keisanki shisutemu. [Semigroups, formal languages and computer systems] **98d:00023**

Seminar:
Analysis ★ Séminaire d'Analyse. 1993–1994. (French) [Seminar on Analysis. 1993 1994] **98a:00009**
— ★ Séminaire d'Analyse. 1994–1995. (French) [Seminar on Analysis. 1994–1995] **98c:00016**
Computational Physics ★ Fourth Granada Lectures in Computational Physics. **98h:00028**
Current Developments in Mathematics ★ Current developments in mathematics, 1995. **98d:00016**
Partial Differential Equations ★ Topological and variational methods for nonlinear boundary value problems. **98e:00023**
Session:
Computational Mathematics and Information Science ★ Вычислительная математика и информатика. (Russian) [Computational mathematics and information science] **98b:00022**
Mathematical Models of Fusion Plasmas ★ Modelos matemáticos en física de plasmas. [Mathematical models in plasma physics] **98h:00029**
Pontifical Academy of Sciences ★ The emergence of complexity in mathematics, physics, chemistry and biology. **98g:00022**
Singapore ★ Geometry from the Pacific Rim. **98c:00011**
Smart structures and materials 1997: mathematics and control in smart structures ★ Smart structures and materials 1997: mathematics and control in smart structures. **98d:00024**
South Hadley, MA ★ Optimization methods in partial differential equations. **98d:00021**
— ★ Perspectives on quantization. **98g:00029**
Srní ★ The Proceedings of the 15th Winter School "Geometry and Physics". **98b:00032**
— ★ The Proceedings of the 16th Winter School "Geometry and Physics".
St. Konstantin ★ Topics in complex analysis, differential geometry and mathematical physics. **98c:00017**
Statistical mechanics of large networks ★ Statistical mechanics of large networks. **98i:00035**
Stochastic models in geosystems ★ Stochastic models in geosystems. **98e:00022**
Stochastic processes in astrophysics ★ Stochastic processes in astrophysics. **98f:00030**
Strasbourg ★ R.C.P. 25. Vol. 47. **98c:00015**
Structure of functional equations and mathematical methods ★ Kansū hōteishiki no kōzō to hōhō. (Japanese) [Structure of functional equations and mathematical methods] **98h:00040**
Symposium:
Advances in Computational Mechanics ★ Symposium on Advances in Computational Mechanics. Vol. 5. **98m:00024**
Advances in Mathematics ★ Advances in mathematical sciences: CRM's 25 years. **98f:00020**
Algebraic Analysis Methods in Microlocal Analysis ★ Chōkyokusho kaiseki ni okeru daisū kaisekiteki hōhō. [Algebraic analysis methods in microlocal analysis] **98h:00024**
Analysis of Discrete Groups ★ Analysis of discrete groups. **98e:00014**
Evolutionary Epistemology as Reflected in the Sciences ★ Die evolutionäre Erkenntnistheorie im Spiegel der Wissenschaften. (German) [Evolutionary epistemology as reflected in the sciences] **98g:00023**
Group Theory and Combinatorial Mathematics ★ Gun ron to kumiawase sūgaku. [Group theory and combinatorial mathematics] **98k:00015**
Investigations on Applied Functional Analysis ★ Ōyō kansū kaiseki no kenkyū. (Japanese) [Investigations on applied functional analysis] **98e:00020**
Investigations on Nonlinear Analysis and Convex Analysis ★ Hisenkei kaisekigaku to totsu kaisekigaku no kenkyū. [Investigations on nonlinear analysis and convex analysis] **98g:00027**
Mathematica ★ Innovation in mathematics. **98g:00025**
Mathematical Analysis and Its Applications ★ 4th Symposium on Mathematical Analysis and Its Applications. **98k:00020**
Mathematical Physics ★ Nonlinear, deformed and irreversible quantum systems. **98b:00026**
— ★ Proceedings of the XXIX Symposium on Mathematical Physics. **98i:00033**
Non-linear Analysis ★ Proceedings of the First Symposium on Non-linear Analysis. **98b:00033**
Proof and Progress in Mathematics ★ Proof and progress in mathematics. **98c:00014**
Quantum Information Theory and Open Systems ★ Ryōshi jōhō riron to kaihō kei. (Japanese) [Quantum information theory and open systems] **98h:00037**
— ★ Ryōshi jōhō riron to kaihō kei. (Japanese) [Quantum information theory and open systems] **98h:00038**
Quantum Stochastic Analysis and Related Fields ★ Ryōshi kakuritsu kaiseki to sono shūhen. [Quantum stochastic analysis and related fields] **98b:00034**
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Variational problems and related topics ★ Hembun mondai to sono shūhen. [Variational problems and related topics] **98f:00031**
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Vatican City ★ The emergence of complexity in mathematics, physics, chemistry and biology. **98g:00022**
Vienna ★ Die evolutionäre Erkenntnistheorie im Spiegel der Wissenschaften. (German) [Evolutionary epistemology as reflected in the sciences] **98g:00023**
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— ★ Quantum groups and quantum spaces. **98f:00028**
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Complex Structures and Vector Fields ★ Topics in complex analysis, differential geometry and mathematical physics. **98c:00017**
Computer Algebra ★ Computer algebra. **98e:00016**
Constraint Theory and Quantization Methods ★ Constraint theory and quantization methods. **98d:00015**
Cosmology and Time Asymmetry ★ Proceedings from the Workshop on Cosmology and Time Asymmetry. **98h:00036**
Cyclic Cohomology and Noncommutative Geometry ★ Cyclic cohomology and noncommutative geometry. **98e:00017**
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Nonlinear Astronomy ★ Stochastic processes in astrophysics. **98f:00030**
Organic Mathematics ★ Organic mathematics. **98f:00027**
Quasiclassical Methods ★ Quasiclassical methods. **98g:00031**
Statistical Mechanics of Large Networks ★ Statistical mechanics of large networks. **98i:00035**
Stochastic Models in Geosystems ★ Stochastic models in geosystems. **98e:00022**
Theoretical Physicists and Mathematicians ★ R.C.P. 25. Vol. 47. **98c:00015**
Uncertainty: Models and Measures ★ Uncertainty: models and measures. **98e:00024**
Wavelets, Multigrid and Other Fast Algorithms (Multipole, FFT) and Their Use in Wave Propagation ★ Wave propagation in complex media. **98g:00033**
Waves in Random and Other Complex Media ★ Wave propagation in complex media. **98g:00033**
Zakopane ★ International Conference on Nonlinear Dynamics, Chaotic and Complex Systems. **98g:00018**

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Marcus, Solomon ★ Mathematical linguistics and related topics. **98f:68013**
Miles, John Wilder ★ Of fluid mechanics and related matters. **98h:76003**
Mohanty, Sri Gopal ★ Advances in combinatorial methods and applications to probability and statistics. **98a:60001**
Nirenberg, Louis ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Oden, John Tinsley ★ Symposium on Advances in Computational Mechanics. Vol. 1. **98f:73002**
Ostrom, Theodore G. ★ Mostly finite geometries. **98b:51002**
Puri, Madan Lal ★ Research developments in probability and statistics. **98b:60004**
Riečan, Beloslav ★ Quantum structures. **98c:81004**
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Sacks, Gerald E. ★ {Sacks Symposium}. **98d:03005**
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Fundamental problems in quantum theory ★ Fundamental problems in quantum theory. **98f:81006**
Group and metric properties of mappings ★ Групповые и метрические свойства отображений. (Russian) [Group and metric properties of mappings] **98c:20003**
Iowa City, IA ★ Mostly finite geometries. **98b:51002**
Kaiserslautern ★ Operators, systems, and linear algebra. **98k:93005**
La Jolla, CA ★ Of fluid mechanics and related matters. **98h:76003**
Lecture Notes in Statistics ★ Robust statistics, data analysis, and computer intensive methods. **98h:62004**
Leganés ★ International Workshop on Orthogonal Polynomials in Mathematical Physics. **98b:33001**
Leipzig ★ Topics in interpolation theory. **98f:47001**
Liptovský Ján ★ Quantum structures. **98c:81004**
Logic programming, nonmonotonic reasoning and reasoning about actions ★ Logic programming, nonmonotonic reasoning and reasoning about actions. **98h:68009**
Malang ★ Applied statistical science. II. **98g:62004**
Markets, risk and money ★ Markets, risk and money. **98e:90006**
Marseilles ★ Combinatorics and physics. **98h:00025**
Mathematical linguistics and related topics ★ Mathematical linguistics and related topics. **98f:68013**
Meeting:
State of Matter ★ The state of matter. **98c:82001**
Memorial Issue:
Duffin, Richard J. ★ {Dedicated to the memory of Richard J. Duffin}.
Gallagher, Richard Hugo ★ Finite elements in fluids. **98j:76003**
Itzykson, Claude ★ Combinatorics and physics. **98h:00025**
Memorial Volume:
Auslander, Maurice ★ Representation theory and algebraic geometry. **98e:16002**
Kuiper, Nicolaas Hendrik ★ Tight and taut submanifolds. **98f:53001**
Minneapolis, MN ★ Topological dynamics and applications. **98h:54001**
Mostly finite geometries ★ Mostly finite geometries. **98b:51002**
Of fluid mechanics and related matters ★ Of fluid mechanics and related matters. **98h:76003**
Operator algebras and quantum field theory ★ Operator algebras and quantum field theory. **98h:00032**
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Perspectives on solvable models ★ Perspectives on solvable models. **98b:82003**
Proceedings:
Conference dedicated to Professor Miguel de Guzmán ★ Proceedings of the conference dedicated to Professor Miguel de Guzmán. **98i:00025**
Proceedings of Symposia in Applied Mathematics ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Quantum structures ★ Quantum structures. **98c:81004**
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Research developments in probability and statistics ★ Research developments in probability and statistics. **98b:60004**
Robust statistics, data analysis, and computer intensive methods ★ Robust statistics, data analysis, and computer intensive methods. **98h:62004**
Rome ★ Operator algebras and quantum field theory. **98h:00032**
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School:
Measure Theory ★ Quantum structures. **98c:81004**
Semidefinite programming ★ Semidefinite programming. **98a:90010**
Special Issue:
Mandelbrot, Benoit B. ★ Complex dynamics in economic and social systems. **98a:90007**
State of matter ★ The state of matter. **98c:82001**
Statistical theory and applications ★ Statistical theory and applications. **98b:62003**
Statistics, probability and game theory ★ Statistics, probability and game theory. **98e:60006**
Symposium:
Advances in Computational Mechanics ★ Symposium on Advances in Computational Mechanics. Vol. 1. **98f:73002**
Symposium: (*cont'd.*)
Differential Equations and Mathematical Physics ★ Differential equations and mathematical physics. **98f:00018**
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Thilisi ★ Differential equations and mathematical physics. **98f:00018**
Tight and taut submanifolds ★ Tight and taut submanifolds. **98f:53001**
Topics in interpolation theory ★ Topics in interpolation theory. **98f:47001**
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Operators, Systems, and Linear Algebra: Three Decades of Algebraic Systems Theory ★ Operators, systems, and linear algebra. **98k:93005**
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00B50 Volumes of selected translations

Siberian Advances in Mathematics ★ Siberian Advances in Mathematics. **98e:00029**
Sugaku Expositions ★ Sugaku Expositions. **98f:00033**
— ★ Sugaku Expositions. **98j:00014**

Items with secondary classifications in 00B50

(Pekonen, Osmo) *see* **In the forest of symbols, 98d:00001**

Items listed otherwise than by author

In the forest of symbols ★ Symbolien metsässä. (Finnish) [In the forest of symbols] **98d:00001**

00B55 Miscellaneous volumes of translations

(Batalina, I. A.) *see* **Analysis, 98k:00023**
(Golod, E. S.) *see* **Algebraic geometry, 98b:00040**
(Manin, Yurii Ivanovich) *see* **Algebraic geometry, 98b:00040**
(Nomizu, Katsumi) *see* **Selected papers on harmonic analysis, groups, and invariants, 98k:00025**
(Sakharova, V. P.) *see* **Algebra, 98k:00022**
(Tyurin, A. N.) *see* **Algebraic geometry, 98b:00040**
(Zhlyabinkova, I. A.) *see* **Dynamic systems, 98f:00034** *and* **Optimization and control, 98k:00024**

Items listed otherwise than by author

Algebra ★ Algebra. 5. **98k:00022**
Algebraic geometry ★ Algebraic geometry. 7. **98b:00040**
American Mathematical Society Translations, Series 2 ★ Selected papers on harmonic analysis, groups, and invariants. **98k:00025**
Analysis ★ Analysis. 9. **98k:00023**
Birthday:
Manin, Yurii Ivanovich ★ Algebraic geometry. 7. **98b:00040**
Dynamic systems ★ Dynamic systems. 4. **98f:00034**
Inverse problems of natural science ★ Numerical methods in mathematical physics. Inverse problems of natural science. **98d:00029**
— ★ Inverse problems of natural science. **98i:00039**
Numerical methods in mathematical physics ★ Numerical methods in mathematical physics. **98a:00011**
— ★ Numerical methods in mathematical physics. Inverse problems of natural science. **98d:00029**
Optimization and control ★ Optimization and control. 1. **98k:00024**
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Siberian Advances in Mathematics ★ Siberian Advances in Mathematics. **98k:00026**
— ★ Siberian Advances in Mathematics. **98e:00030**
— ★ Siberian Advances in Mathematics. **98i:00040**
— ★ Siberian Advances in Mathematics. **98i:00041**

Items with secondary classifications in 00B55

(Il'ina, G. V.) *see* **Algebraic geometry, 98e:14002**
(Krasnopolina, E. I.) *see* **Algebraic geometry, 98b:14001**
(Shipshina, A. G.) *see* **Algebra, 98h:16002**

Items listed otherwise than by author

Algebra ★ Algebra. 4. **98h:16002**
Algebraic geometry ★ Algebraic geometry. 2. **98e:14002**
— ★ Algebraic geometry. 2. **98h:14001**
Dynamical systems ★ Dynamical systems. No. 11. **98b:00018**

00B60 Collections of reprinted articles [see also 01A75]

(Babbitt, Donald G.) *see* **Featured reviews in Mathematical Reviews, 98m:00025**
(Kister, Jane E.) *see* **Featured reviews in Mathematical Reviews, 98m:00025**

Items listed otherwise than by author

Featured reviews in Mathematical Reviews ★ Featured reviews in Mathematical Reviews 1995–1996. **98m:00025**

Items with secondary classifications in 00B60

(Brown, Laurie) *see* **Rise of the standard model, 98h:81002**
(Désarménien, Jacques) *see* **Festschrift: Foata, Dominique C., 98g:05003**
(Dresden, Max) *see* **Rise of the standard model, 98h:81002**
(Foata, Dominique C.) *see* **Festschrift: Foata, Dominique C., 98g:05003**
(Hoddeson, Lillian) *see* **Rise of the standard model, 98h:81002**
(Kerber, Adalbert) *see* **Festschrift: Foata, Dominique C., 98g:05003**
(Rabinowitz, Stanley) *see* **Problems: Mathematical Visitor, 98b:01044**
(Riordan, E. Michael) *see* **Rise of the standard model, 98h:81002**
(Strehl, Volker) *see* **Festschrift: Foata, Dominique C., 98g:05003**

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Festschrift:
  Foata, Dominique C. ★ The Foata Festschrift. **98g:05003**
Problems:
  Mathematical Visitor ★ Problems and solutions from The Mathematical Visitor 1877–1896. **98b:01044**
Rise of the standard model ★ The rise of the standard model. **98h:81002**
Symposium:
  History of Particle Physics ★ The rise of the standard model. **98h:81002**

01–XX History and biography [see also the classification number –03 in the other sections]

01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Barbieri, Francesco (*with* Degani Cattelani, Franca) ★ Catalogo della corrispondenza di Paolo Ruffini. (Italian) [Catalogue of the correspondence of Paolo Ruffini] **98g:01001**
(Berggren, Lennart) *see* **Pi: a source book, 98f:01001**
(Borwein, Jonathan M.) *see* **Pi: a source book, 98f:01001**
(Borwein, P. B.) *see* **Pi: a source book, 98f:01001**
Degani Cattelani, Franca *see* **Barbieri, Francesco, 98g:01001**
(Grattan-Guinness, Ivor) *see* **Encyclopedia: History and philosophy of the mathematical sciences, 98g:01003** *and* **Katz, Victor J.**
Gupta, Radha Charan A glimpse of doctoral work in progress or recently completed (in the area of history of mathematics).
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(Köstler, Margot) *see* **Poggendorff, J. C., 98g:01002a** *and* **98g:01002b**
(Neu, John A.) *see* **Bibliography: History of science and its cultural influences**
Poggendorff, J. C. ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIII. Teil 1. Lieferung 1. (German) [Biographical-literary lexicon of the exact natural sciences. Vol. VIII. Part 1. No. 1.] **98g:01002a**
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(Ruffini, Paolo) *see* **Barbieri, Francesco, 98g:01001**
(Wußing, Hans) *see* **Poggendorff, J. C., 98g:01002b**

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  History of science and its cultural influences Current bibliography of the history of science and its cultural influences. 1997.
  Ruffini, Paolo *see* **Barbieri, Francesco, 98g:01001**
Correspondence:
  Ruffini, Paolo *see* **Barbieri, Francesco, 98g:01001**
Dictionary:
  Exact natural sciences *see* **Poggendorff, J. C., 98g:01002a** *and* **98g:01002b**
Encyclopedia:
  History and philosophy of the mathematical sciences ★ Companion encyclopedia of the history and philosophy of the mathematical sciences. Vol. 1, 2. **98g:01003**
Pi: a source book ★ Pi: a source book. **98f:01001**

01–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Alten, Heinz-Wilhelm) *see* **Wußing, Hans, 98g:01004**
(Casal, Alfonso C.) *see* **Collette, Jean-Paul, 98k:01001**
Collette, Jean-Paul ★ Historia de las matemáticas. II. (Spanish. Spanish summary) [History of mathematics. II] **98k:01001**
(Djafari Naini, Alireza) *see* **Wußing, Hans, 98g:01004**
Wußing, Hans (*with* et al.) ★ Vom Zählstein zum Computer. (German) [From counting pebbles to the computer] **98g:01004**

Items with secondary classifications in 01–01

Eves, Howard ★ Foundations and fundamental concepts of mathematics. (English summary) **98g:00001**
(Meserve, Bruce E.) *see* **Eves, Howard, 98g:00001**

01–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 01–02

Ronchi, Vasco ★ Histoire de la lumière. (French) [History of light] **98g:01077**
(Taton, Juliette) *see* **Ronchi, Vasco, 98g:01077**

01–06 Proceedings, conferences, collections, etc.

(Beck, Hanno) *see* **Nature, mathematics and history**
(Buchwald, Jed Z.) *see* **Aspects of mid to late nineteenth century electromagnetism, 98d:01001**
(Caroti, Stefano) *see* **New physics of the XIVth century, 98f:01003**
(Casulleras, Josep) *see* **From Baghdad to Barcelona/De Bagdad a Barcelona, 98d:01002**
(Desargues, Girard) *see* **Desargues and his times, 98b:01001**
(Dhombres, Jean) *see* **Desargues and his times, 98b:01001**
(Folkerts, Menso) *see* **Nature, mathematics and history**
(von Humboldt, Alexander) *see* **Nature, mathematics and history**
(Jacquart, Danielle) *see* **Paths of Greek science, 98k:01002**
(Kivinukk, Andi) *see* **Estonian Mathematical Society. Annual, 98f:01002**
(Livesey, Steven) *see* **Tradition, transmission, transformation, 98b:01002**
(Ragep, F. Jamil) *see* **Tradition, transmission, transformation, 98b:01002**
(Ragep, Sally P.) *see* **Tradition, transmission, transformation, 98b:01002**
(Roomeldi, R.) *see* **Estonian Mathematical Society. Annual, 98f:01002**
(Sakarovitch, Joel) *see* **Desargues and his times, 98b:01001**
(Samsó-Moya, Julio) *see* **From Baghdad to Barcelona/De Bagdad a Barcelona, 98d:01002**
(Siegmund-Schultze, Reinhard) *see* **Nature, mathematics and history**
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  New Physics of the XIVth Century ★ La nouvelle physique du XIVe siècle. [The new physics of the XIVth century] **98f:01003**
Conference:
  History of Mathematics in the XIXth Century ★ Historia de la matemática en el siglo XIX. Parte 1. (Spanish) [History of mathematics in the XIXth century. Part 1] **98d:01003**
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  Pre-modern Science ★ Tradition, transmission, transformation. **98b:01002**
Desargues and his times ★ Desargues en son temps. (French) [Desargues and his times] **98b:01001**
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History of mathematics in the XIXth century ★ Historia de la matemática en el siglo XIX. Parte 1. (Spanish) [History of mathematics in the XIXth century. Part 1] **98d:01003**
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Natur, Mathematik und Geschichte ★ Natur, Mathematik und Geschichte. (German) [Nature, mathematics and history]
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New physics of the XIVth century ★ La nouvelle physique du XIVe siècle. [The new physics of the XIVth century] **98f:01003**
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(Bucciantini, Massimo) *see* **Spread of Copernicanism in Italy, 98g:01027**
(Kapur, J. N.) *see* **Some eminent Indian mathematicians of the twentieth century, 98m:01037**
(Nobre, Sergio) *see* **Meeting: International Study Group on Relations Between History and Pedagogy of Mathematics, 98d:00018** *and* **Conference: History of Mathematics, 98g:01010**
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Conference:
  History of Mathematics ★ II Encontro Luso-Brasileiro de História da Matemática & II Seminário Nacional de História da Matemática. (Portuguese) [II Portuguese-Brazilian Conference on the History of Mathematics & II National Seminar on the History of Mathematics] **98g:01010**
Meeting:
  International Study Group on Relations Between History and Pedagogy of Mathematics ★ Meeting of the International Study Group on Relations Between History and Pedagogy of Mathematics. **98d:00018**
Naples ★ La diffusione del copernicanesimo in Italia, 1543–1610. (Italian) [The spread of Copernicanism in Italy, 1543–1610] **98g:01027**
São Paulo ★ II Encontro Luso-Brasileiro de História da Matemática & II Seminário Nacional de História da Matemática. (Portuguese) [II Portuguese-Brazilian Conference on the History of Mathematics & II National Seminar on the History of Mathematics] **98g:01010**

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01Axx History of mathematics and mathematicians

01A05 General histories, source books

Balieiro, Inocêncio F. *see* **Baroni, Rosa L. S.**, (**98g:01010**)
(Ballard, Jean) *see* **Le Lionnais, François**, **98j:01001**
Baroni, Rosa L. S. (*with* Balieiro, Inocêncio F.) The concept of infinitesimal in J. A. de Cunha's *Mathematical principles*. (Portuguese) (*see* **98g:01010**)
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(Erdős, Paul[1]) *see* **de Castro Korgi, Rodrigo, 98h:01041**
Falconer, Etta Z. The challenge of diversity. (English summary) (*see* **98e:00012**)
(Galilei, Galileo) *see* **Segre, Michael**
Gushel', R. Z. On certain problems in teaching a course in the history of mathematics in a pedagogical institute. (Russian)
Kapitsa, Petr Leonidovich P. Kapitsa—in defense of Luzin. (Russian)
(Klein, Felix) *see* **Siegmund-Schultze, Reinhard, 98f:01099**
Levitt, Norman Mathematics as the stepchild of contemporary culture. (*see* **98i:00013**)
Lorch, Lee Yesterday, today and tomorrow. (English summary) **98f:01098**
(Luzin, N. N.) *see* **Kapitsa, Petr Leonidovich** *and* **Demidov, S. S.**
Malaty, George Eastern and Western mathematical education: unity, diversity, and problems. (English summary)
Martin, Brian Mathematics and social interests [Search **19** (1988), no. 4, 209–214]. (*see* **98b:01005**)
Maxwell, James W. *see* **Davis, Paul W.; et al.**
McAllister, James W. Philosophy of science in the Netherlands. (English summary)
Mendonça, Margarida Women in mathematics. (Portuguese) (*see* **98g:01010**)
Remick, Kinda M. *see* **Davis, Paul W.; et al.**
Ruskai, Mary Beth Are "feminist perspectives" in mathematics and science feminist? (*see* **98i:00013**)
Sadosky, Cora On issues of immigration and employment for mathematicians.
Schubring, Gert Errata: "Differences in the involvement of mathematicians in the political life in France and in Germany" [Boll. Storia Sci. Mat. **15** (1995), no. 1, 61–83 (1996); MR 97d:01044]. (Italian)
Segre, Michael Light on the Galileo case? (English summary)
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— Felix Kleins Beziehungen zu den Vereinigten Staaten, die Anfänge deutscher auswärtiger Wissenschaftspolitik und die Reform um 1900. (English summary) [Felix Klein's connections to the United States, the beginnings of German foreign cultural policy and the reform around 1900] **98f:01099**
— Mathematics in Hitler's Germany: importance, results and open problems of a historical question.
Ssembatya, Vincent (*with* Vince, Andrew) Mathematics in Uganda.
Vince, Andrew *see* **Ssembatya, Vincent**

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Bukhshtaber, V. M. (*with* Novikov, S. P.) On the history of the N. I. Lobachevskiĭ prize (on the centenary of its first awarding in 1897). (Russian)
Clarkson, Philip C. *see* **Ellerton, Nerida F., (98a:00004)**
(D'Ambrosio, Ubiratan) *see* **Ethnomathematics, 98b:01005**
Davis, Philip J. (*with* Hersh, Reuben; Marchisotto, Elena Anne) Ideal mathematician. (Russian) **98j:01045**
(Descartes, René) *see* **Schneider, Ivo, 98h:01011**
Dhombres, Jean (*with* Julia, Dominique) Les repères d'une culture mathématique vers 1800: le témoignage de deux listes de livres. (English summary) [Image of the mathematical culture around 1800 as reflected in two lists of books] **98g:01034**
(Einstein, Albert) *see* **Franke, Almut, 98h:01024**
Ellerton, Nerida F. (*with* Clarkson, Philip C.) Language factors in mathematics teaching and learning. (English summary) (*see* **98a:00004**)
Feffer, Loren Butler Mathematical physics and the planning of American mathematics: ideology and institutions. (English, French and German summaries) **98f:01042**
Franke, Almut (*with* Franke, Fabian) Paul Langevin und Albert Einstein—eine Freundschaft zwischen Relativitätstheorie und politischer Realität. (English summary) [Paul Langevin and Albert Einstein—a friendship between relativity theory and political reality] **98h:01024**
Franke, Fabian *see* **Franke, Almut, 98h:01024**
(Frankenstein, Marilyn) *see* **Ethnomathematics, 98b:01005**
(Gilmer, G.) *see* **Ethnomathematics, 98b:01005**

Hendy, Mike Centrefold: Gillian Thornley.
Hersh, Reuben *see* **Davis, Philip J.; et al., 98j:01045**
Hormigón, Mariano Le journalisme mathématique en Espagne au XIXème siècle: la piste française. (English summary) [Mathematical periodicals in nineteenth-century Spain: the French influence] **98m:01016**
— Paradigms and mathematics: a theoretical model for research into the history of mathematics. **98h:00007**
(Ioffe, Abram Fedorovich) *see* **Sonin, A. S.**
Julia, Dominique *see* **Dhombres, Jean, 98g:01034**
(Langevin, Paul) *see* **Franke, Almut, 98h:01024**
Lehto, Olli ★ Mathematics without borders. (English summary) **98m:01039**
Litten, F. Ernst Mohr—das Schicksal eines Mathematikers. [Ernst Mohr—destiny of a mathematician] **98f:01075**
(Lobachevskiĭ, N. I.) *see* **Bukhshtaber, V. M.**
Marchisotto, Elena Anne *see* **Davis, Philip J.; et al., 98j:01045**
(Mohr, Ernst[1]) *see* **Litten, F., 98f:01075**
(Nolan, Deborah) *see* **Women in mathematics**
Novikov, S. P. *see* **Bukhshtaber, V. M.**
(Powell, Arthur B.) *see* **Ethnomathematics, 98b:01005**
(Safuanov, I. S.) *see* **Davis, Philip J.; et al., 98j:01045**
Sánchez, Clara Helena Homage to the Colombian Mathematical Society on the fortieth anniversary of its foundation. (Spanish. Spanish summary)
Schaffner, Ann C. The future of scientific journals. Lessons from the past. (Spanish. Spanish summary)
Schneider, Ivo Wie Huren und Betrüger—die Begegnung des jungen Descartes mit der Welt der Praktiker der Mathematik. (English summary) [Like whores and swindlers—the encounter of the young Descartes with the world of mathematical practitioners] **98h:01011**
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(Thornley, Gillian) *see* **Hendy, Mike**

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Berkeley, CA ★ Women in mathematics.
Biography:
Lobachevskiĭ, Nikolaĭ Ivanovich *see* **Bukhshtaber, V. M.**
Thornley, Gillian *see* **Hendy, Mike**
Conference:
Women in Mathematics: Scaling the Heights and Beyond ★ Women in mathematics.
Ethnomathematics ★ Ethnomathematics. **98b:01005**
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01A99 Miscellaneous topics

Abeles, Francine F. The development of the automatic calendar in the nineteenth century. **98g:01079**
Abraham, George Ancient and medieval star catalogues.
Bailey, David H. (*with* Borwein, Jonathan M.; Borwein, P. B.; Plouffe, Simon) The quest for pi. **98b:01045**
Batanero, Carmen (*with* Green, David R.; Serrano, Luis Romero) Randomness, its meanings and educational implications. (English summary)
Bednarik, Robert G. *see* **Warner, Charles, (98e:01003)**
Borwein, Jonathan M. *see* **Bailey, David H.; et al., 98b:01045**
Borwein, P. B. *see* **Bailey, David H.; et al., 98b:01045**
Brüning, Jochen Zeitgemäße Physiologien: Der Mathematiker. (German summary) [Contemporary physiologies: the mathematician]
Carter, Roger The history of macramé. (*see* **98e:01003**)
Chang, Europa A history of lace. (*see* **98e:01003**)
Chen, Lydia H. S. The art of Chinese knotwork: a short history. (*see* **98e:01003**)
Choquet, Gustave Les processus mentaux de la création. [The mental processes of creation] (*see* **98a:00009**)
Christensen, Antje The Peruvian quipu. (*see* **98e:01003**)
Cunningham, Sally Jo Crochet work—history and computer applications. (*see* **98e:01003**)
Dudley, Underwood Is mathematics necessary?
(Euler, Leonhard) *see* **Gilain, Christian**
Gilain, Christian Un chantier en cours depuis le début du siècle: l'édition complète des œuvres d'Euler. [A project under construction since the beginning of the century: the complete edition of the works of Euler]
Gray, S. I. B. A mathematics treasure in California.
Green, David R. *see* **Batanero, Carmen; et al.**
van de Griend, Pieter Inuit knots. (*see* **98e:01003**)
— Knots at sea. (*see* **98e:01003**)
— On the true love knot. (*see* **98e:01003**)
Herceg, Djordje *see* **Ilić, Snežana M.; et al., 98h:01042**
Ilić, Snežana M. (*with* Petković, Miodrag S.; Herceg, Djordje) A note on Babylonian square-root algorithm and related variants. (English summary) **98h:01042**
Johnsen, Ben From Jacques Casanova to Claude Shannon. (Norwegian. English summary) **98h:01043**
van der Kleij, Gerre On knots and swamps—knots in European prehistory. (*see* **98e:01003**)
Lichtenberg, Heiner Zur Interpretation der Gaußschen Osterformel und ihrer Ausnahmeregeln. (English, German and Italian summaries) [On the interpretation of Gauss' Easter formula and its rules for exception] **98h:01044**
Nolin, Louis Des caves de l'Institut Henri Poincaré à la terre promise de la rue du Maroc. (English and French summaries) [From the caves of the Institut Henri Poincaré to the promised land of the rue du Maroc]
Novikov, S. P. Mathematical education in Russia: is it forward-looking? (Russian)
Pepe, Luigi The founding of the library of the École Polytechnique: the involuntary contribution of Belgium and Italy. (Italian)
Petković, Miodrag S. *see* **Ilić, Snežana M.; et al., 98h:01042**
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Sánchez, Clara Helena Some aspects of the Colombian mathematical patrimony. The Revista de Matemáticas Elementales, 1952–1967 [Mathesis **10** (1994), no. 3, 313–330]. (Spanish. Spanish summary)
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Serrano, Luis Romero *see* **Batanero, Carmen; et al.**
Stapleton, Darwin H. Dirk J. Struik's *Yankee science in the making* [Little, Brown and Co., Boston, MA, 1948; MR **10**, 667j]: a half-century retrospective.
(Struik, Dirk J.) *see* **Stapleton, Darwin H.**
Warner, Charles (*with* Bednarik, Robert G.) Pleistocene knotting. (*see* **98e:01003**)
— Why knot?—some speculations on the earliest knots. (*see* **98e:01003**)
— A history of life support knots. (*see* **98e:01003**)
— Studies on the behaviour of knots. (*see* **98e:01003**)
— Heraldic knots. (*see* **98e:01003**)
Wendrich, Willemina Ancient Egyptian rope and knots. (*see* **98e:01003**)

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Arboleda, Luis Carlos (*with* Recalde, Luis Cornelio) The actual infinite and the techniques of the uncountably infinite: a methodological contribution. (Spanish) (*see* **98d:00018**)
Bellissima, Fabio (*with* Pagli, Paolo) ★ Consequentia mirabilis. (Italian) **98b:03003**
Ben-Haim, Yakov *see* **Natke, H. Günther, (98e:00024)**
Budworth, Geoffrey Trambles. (*see* **98e:01003**)
(de Bustos, E.) *see* **Current perspectives in logic and philosophy of science, 98m:00014**
Charap, John M. Mechanics as geometry? (English summary) **98d:70018**
Clawson, Calvin C. ★ Mathematical mysteries. **98e:11001**
David, Herbert A. First (?) occurrence of common terms in probability and statistics—a second list, with corrections. (English summary)
(Delling, Hildegard) *see* **Poggendorff, J. C., 98g:00006**
(Descartes, René) *see* **Devlin, Keith, 98f:00005**
Devlin, Keith Good-bye Descartes? **98f:00005**
(Fiala, Jiří) *see* **Grant, Hardy, 98c:00005**
(Fischer, Marta) *see* **Poggendorff, J. C., 98g:00006**
(García-Bermejo Ochoa, Juan Carlos) *see* **Current perspectives in logic and philosophy of science, 98m:00014**
Gardies, Jean-Louis L'analyse entre raisonnement et calcul. [Analysis between reasoning and calculus] **98e:00005**
Garrido, Luis Approximations of the constant π. (Spanish. English and Spanish summaries)
Gaukroger, Stephen Justification, truth, and the development of science.
Grant, Hardy What is modern about "modern" mathematics? [MR 96h:00008]. (Czech) **98c:00005**
(van de Griend, Pieter) *see* **History and science of knots, 98e:01003**
Hajnal, András Paul Erdös' set theory. **98b:01031**
Hormigón, Mariano Paradigms and mathematics: a theoretical model for research into the history of mathematics. **98h:00007**
Jahnke, Hans Niels Mathematikgeschichte für Lehrer—Gründe und Beispiele. (German summary) [History of mathematics for teachers—reasons and examples]
Kahle, Dietrich Zur Rolle des Erlanger Programms im Geometrieunterricht. (German summary) [On the role of the Erlangen Program in the teaching of geometry]
Kapur, J. N. ★ Research methodology for scientists and engineers. (English summary)
(Köstler, Margot) *see* **Poggendorff, J. C., 98g:00006**
Malaty, George Eastern and Western mathematical education: unity, diversity, and problems. (English summary)
(Meischner, Lona) *see* **Poggendorff, J. C., 98g:00006**
Moritz, Helmut Gauss, Gödel, Heisenberg. (English summary) (*see* **98e:00024**)
Natke, H. Günther (*with* Ben-Haim, Yakov) Uncertainty: a discussion from various points of view. (*see* **98e:00024**)
Pagli, Paolo *see* **Bellissima, Fabio, 98b:03003**
Paty, M. *see* **Zahar, Elie**
(Pérez Sedeño, E.) *see* **Current perspectives in logic and philosophy of science, 98m:00014**
Poggendorff, J. C. ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Bibliographie der Periodika. (German) [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Bibliography of periodicals] **98g:00006**
Recalde, Luis Cornelio *see* **Arboleda, Luis Carlos, (98d:00018)**
(Rivadulla, Andrés) *see* **Current perspectives in logic and philosophy of science, 98m:00014**
Sachs, Mendel Changes in concepts of time from Aristotle to Einstein. (English summary) **98i:83001**
Schrijver, Alexander Rambling along paths, trees, flows, curves, knots, and rails. (*see* **98h:00042**)
Turner, John Christopher On theories of knots. (*see* **98e:01003**)
— *see also* **History and science of knots, 98e:01003**
Tzanakis, Constantinos The quest of beauty in research and teaching of mathematics and physics: a historical approach. (*see* **98i:00030**)
(Urrutia, Juan) *see* **Current perspectives in logic and philosophy of science, 98m:00014**
Veschambre, Philippe Trois triangles, quatre carrés. . . . [Three triangles, four squares. . .] **98d:11036**
Vollrath, Hans-Joachim Die Rolle des Didaktischen in der Grundlegung der Arithmetik. (German summary) [The role of didactics in the foundation of arithmetic]
(Weichsel, Lebrecht) *see* **Poggendorff, J. C., 98g:00006**
Zahar, Elie (*with* Paty, M.) Intentionality or platonism? (English summary)
(Zoflo, J. L.) *see* **Current perspectives in logic and philosophy of science, 98m:00014**

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Current perspectives in logic and philosophy of science ★ Perspectivas actuales de lógica y filosofía de la ciencia. (Spanish) [Current perspectives in logic and philosophy of science] **98m:00014**
Dictionary:
Exact natural sciences *see* **Poggendorff, J. C., 98g:00006**
History and science of knots ★ History and science of knots. **98e:01003**

03–XX Mathematical logic and foundations

03–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 03–00

Flo, Olav *see* **Øhrstrøm, Peter, 98g:01059**
Øhrstrøm, Peter (*with* Flo, Olav) Bibliography of Prior's philosophical writings. **98g:01059**
(Prior, Arthur) *see* **Øhrstrøm, Peter, 98g:01059**

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Bibliography:
Prior, Arthur *see* **Øhrstrøm, Peter, 98g:01059**

03–01 Instructional exposition (textbooks, tutorial papers, etc.)

Adamowicz, Zofia (*with* Zbierski, Paweł) ★ Logic of mathematics. (English summary) **98c:03001**
Bostock, David ★ Intermediate logic. (English summary) **98i:03001**
Buth, Manfred ★ Einführung in die formale Logik. (German. German summary) [Introduction to formal logic] **98b:03001**
Church, Alonzo ★ Introduction to mathematical logic. (English summary) **98g:03001**
Drake, F. R. (*with* Singh, Dasharath) ★ Intermediate set theory. **98a:03001**
Jirásko, Josef ★ Matematika. 35. (Czech) [Mathematics. 35]
Lavrov, I. A. (*with* Maksimova, L. L.) ★ Задачи по теории множеств, математической логике и теории алгоритмов. (Russian. Russian summary) [Problems in set theory, mathematical logic and the theory of algorithms] **98b:03001**
Maksimova, L. L. *see* **Lavrov, I. A., 98b:03001**
Malatesta, Michele ★ The primary logic. (English summary) **98k:03001**
Rautenberg, Wolfgang ★ Einführung in die mathematische Logik. (German. German summary) [Introduction to mathematical logic] **98c:03002**
Ruzsa, Imre ★ Introduction to metalogic. **98m:03001**
Singh, Dasharath *see* **Drake, F. R., 98a:03001**
Zbierski, Paweł *see* **Adamowicz, Zofia, 98c:03001**

Items with secondary classifications in 03–01

(Brouwer, Luitzen Egbertus Jan) *see* **Largeault, Jean, 98b:03084**
Doets, Kees ★ Basic model theory. (English summary) **98c:03076**
Fitting, Melvin *see* **Smullyan, Raymond M., 98a:03071**
Giaretta, Pierdaniele Analysis and logical form in Russell: the 1913 paradigm. (English summary)
Hodges, Wilfrid ★ A shorter model theory. (English summary) **98i:03041**
Johann, Patricia *see* **Socher-Ambrosius, Rolf, 98m:03025**
Largeault, Jean ★ Intuition et intuitionisme. (French. French summary) [Intuition and intuitionism] **98b:03084**
Metakides, G. (*with* Nerode, Anil) ★ Principles of logic and logic programming. **98h:68041**
Nerode, Anil *see* **Metakides, G., 98h:68041**
Nguyen, Hung Trung (*with* Walker, Elbert Abner) ★ A first course in fuzzy logic. (English summary) **98b:03041**
(Potamias, George) *see* **Metakides, G., 98h:68041**
(Russell, Bertrand A. W.) *see* **Giaretta, Pierdaniele**
Schechter, Eric ★ Handbook of analysis and its foundations. **98b:00009**
Schwichtenberg, Helmut *see* **Troelstra, A. S., 98g:03127**
(Sinachopoulos, A.) *see* **Metakides, G., 98h:68041**
Smullyan, Raymond M. (*with* Fitting, Melvin) ★ Set theory and the continuum problem. **98a:03071**
Socher-Ambrosius, Rolf (*with* Johann, Patricia) ★ Deduction systems. (English summary) **98m:03025**
Tarski, Alfred Some current problems in metamathematics. (English summary) **98g:01055**
(Tarski, Jan) *see* **Tarski, Alfred, 98g:01055**
Troelstra, A. S. (*with* Schwichtenberg, Helmut) ★ Basic proof theory. (English summary) **98g:03127**
Truss, J. K. ★ Foundations of mathematical analysis. **98m:00003**
(Van Stigt, Walter P.) *see* **Largeault, Jean, 98b:03084**
Walker, Elbert Abner *see* **Nguyen, Hung Trung, 98b:03041**
Weaver, George ★ Henkin-Keisler models. (English summary) **98g:03079**
(Woleński, Jan) *see* **Tarski, Alfred, 98g:01055**

03–02 Research exposition (monographs, survey articles)

Adib-Soltāni, Mir Šamseddin ★ An investigation of the decision problem in logic. (Persian. English and Persian summaries) **98b:03002**
(Cole, Joshua) *see* **Mortensen, Chris, 98k:03002**
Font, Josep Maria (*with* Jansana, Ramon) ★ A general algebraic semantics for sentential logics. **98a:03002**
Gabbay, Dov M. ★ Labelled deductive systems. Vol. 1. **98c:03003**
Geuvers, J. H. *see* **Nederpelt, R. P., (98g:03038)**
(James, William) *see* **Mortensen, Chris, 98k:03002**
Jansana, Ramon *see* **Font, Josep Maria, 98a:03002**
(Lavers, Peter) *see* **Mortensen, Chris, 98k:03002**
Mortensen, Chris ★ Inconsistent mathematics. (English summary) **98k:03002**
Nederpelt, R. P. (*with* Geuvers, J. H.) Twenty-five years of Automath research. (*see* **98g:03038**)
Shelah, Saharon ★ Proper and improper forcing. (English summary) **98m:03002**
Tsuboi, Akito On recent model theory [translation of Sūgaku **47** (1995), no. 1, 62–72; MR 96k:03003]. (*see* **98f:00033**)

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Adamowicz, Zofia (*with* Zbierski, Paweł) ★ Logic of mathematics. (English summary) **98c:03001**
(Béziau, Jean-Yves) *see* **da Costa, Newton C. A., 98b:03011**
Bouscaren, Elisabeth An introduction to independence and local modularity. **98g:03087**
Buechler, Steven ★ Essential stability theory. (English summary) **98j:03050**
Chagrov, A. V. (*with* Zakhar'yashchev, M. V.) ★ Modal logic. **98e:03021**
da Costa, Newton C. A. ★ Logiques classiques et non classiques. (French. French summary) [Classical and nonclassical logics] **98b:03011**
Dales, H. Garth (*with* Woodin, W. Hugh) ★ Super-real fields. **98b:12005**
Dorn, Georg J. W. ★ Deductive, probabilistic and inductive dependence. (English summary) **98d:03033**
Drake, F. R. (*with* Singh, Dasharath) ★ Intermediate set theory. **98a:03001**
van den Dries, Lou o-minimal structures. **98b:03053**
— o-minimal structures on the field of real numbers. **98b:03054**
Eklof, Paul C. Set theory generated by abelian group theory. **98g:03113**
Fagin, Ronald Easier ways to win logical games. (English summary) **98d:03046**
Fitting, Melvin *see* **Smullyan, Raymond M., 98a:03071**
Kieseppä, I. A. ★ Truthlikeness for multidimensional, quantitative cognitive problems. (English summary) **98b:03018**
Lempp, Steffen (*with* Lerman, Manuel) Iterated trees of strategies and priority arguments. (English summary) **98m:03086**
Lerman, Manuel *see* **Lempp, Steffen, 98m:03086**
Monk, J. Donald Lectures on cylindric set algebras. **98a:03097**
Pillay, Anand ★ Geometric stability theory. **98a:03049**
Pudlák, Pavel On the lengths of proofs of consistency: a survey of results. **98b:03076**
Rybakov, Vladimir V. ★ Admissibility of logical inference rules. **98i:03035**
Singh, Dasharath *see* **Drake, F. R., 98a:03001**
Smullyan, Raymond M. (*with* Fitting, Melvin) ★ Set theory and the continuum problem. **98a:03071**
Woodin, W. Hugh *see* **Dales, H. Garth, 98b:12005**
Zakhar'yashchev, M. V. *see* **Chagrov, A. V., 98e:03021**
Zbierski, Paweł *see* **Adamowicz, Zofia, 98c:03001**

03–03 Historical (must also be assigned at least one classification number from Section 01)

Alves, E. H. *see* **D'Ottaviano, I. M. L.; et al., (98k:03006)**
(Aristotle) *see* **De Praetere, Thomas, 98g:03002**
Bellissima, Fabio (*with* Pagli, Paolo) ★ Consequentia mirabilis. (Italian) **98b:03003**
Carnielli, W. A. *see* **D'Ottaviano, I. M. L.; et al., (98k:03006)**
(Dauben, Joseph Warren) *see* **Luxemburg, W. A. J.**
De Praetere, Thomas The demonstration by refutation of the principle of non-contradiction in Aristotle's *Metaphysics*, Book IV. (English summary) **98g:03002**
D'Ottaviano, I. M. L. (*with* Carnielli, W. A.; Alves, E. H.) The centre for logic in Campinas and the development of logic in Brazil. (*see* **98k:03006**)
(Gödel, Kurt) *see* **Kushner, B. A., 98b:03004**
Havas, Katalin G. Aristotelian and modern logic. **98a:03003**
(Hilbert, David[1]) *see* **Smirnova, E. D., (98i:03005)**
(Kant, Immanuel) *see* **Smirnova, E. D., (98i:03005)**
Knabenschuh de Porta, Sabine Über die Contingentia Futura und ihre epistemologischen Implikationen. [Future contingents and their epistemological implications] (*see* **98k:03003**)
Kushner, B. A. Kurt Gödel and the constructive mathematics of A. A. Markov. **98b:03004**
Landini, Gregory Logic in Russell's *Principles of mathematics*. (English summary) **98i:03002**
Luxemburg, W. A. J. Book review of *Abraham Robinson* [Princeton Univ. Press, Princeton, 1995; MR 95m:01016] by J. W. Dauben.
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(Miglioli, Pierangelo) *see* **Theorem proving with analytic tableaux and related methods, 98i:03007**
(Moscato, Ugo) *see* **Theorem proving with analytic tableaux and related methods, 98i:03007**
(Mundici, Daniele) *see* **Computational logic and proof theory, 98h:03004** *and* **Theorem proving with analytic tableaux and related methods, 98i:03007**
(Ornaghi, Mario) *see* **Theorem proving with analytic tableaux and related methods, 98i:03007**
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(Tomasik, Jerzy) *see* **Colloquium: Logic, 98i:03003**
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Colloquium:
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Logic ★ Logic Colloquium '95 Haifa. **98h:03003**
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— ★ Computer science logic. **98k:03005**
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Theorem proving with analytic tableaux and related methods ★ Theorem proving with analytic tableaux and related methods. **98i:03007**
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(Quine, Willard Van Orman) *see* **On Quine, 98h:03010**
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NATO Advanced Study Institute:
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Hofmann, Martin On the interpretation of type theory in locally Cartesian closed categories. (English summary) (*see* **98d:68013**)
— Conservativity of equality reflection over intensional type theory. (English summary) **98e:03007**
Kosseĭ, I. P. A note on the completeness of higher order resolution. (English summary) **98f:03009**
Kristiansen, Lill (*with* Normann, Dag) Semantics for some constructors of type theory. **98g:03017**
Laan, Twan ★ The evolution of type theory in logic and mathematics. (English and Dutch summaries) **98k:03017**
Lambek, J. An extension of the formulas-as-types paradigm. (French summary) **98m:03011**
Landini, Gregory The definability of the set of natural numbers in the 1925 *Principia mathematica*. (English summary) **98g:03018**
Liquori, Luigi *see* **van Bakel, Steffen; et al., 98i:03016**
Loader, Ralph Equational theories for inductive types. (English summary) **98k:03018**
Normann, Dag *see* **Kristiansen, Lill, 98g:03017**
van de Pol, Jaco (*with* Schwichtenberg, Helmut) Strict functionals for termination proofs. (English summary) **98f:03010**
Ranta, Aarne Syntactic categories in the language of mathematics. (English summary) **98b:03014**
Ronchi della Rocca, Simona *see* **van Bakel, Steffen; et al., 98i:03016**
(Russell, Bertrand A. W.) *see* **Landini, Gregory, 98g:03018**
Schwichtenberg, Helmut *see* **van de Pol, Jaco, 98f:03010**
Setzer, Anton Translating set theoretical proofs into type theoretical programs. (English summary) **98i:03017**
— Inductive definitions with decidable atomic formulas. (English summary) **98k:03019**
Skvortsov, D. P. Non-axiomatizable second order intuitionistic propositional logic. (English summary) **98g:03019**
Slind, Konrad Derivation and use of induction schemes in higher-order logic. (English summary) (*see* **98i:68018**)
Smith, Jan M. *see* **Tammet, Tanel, 98e:03009**
Sommaruga-Rosolemos, Giovanni Quelques aspects épistémologiques de la théorie constructive des types. [Some epistemological aspects of the constructive theory of types] (*see* **98k:03007**)
Sørensen, Morten Heine *see* **Barthe, Gilles; et al., (98f:68012)**
Stefanova, M. (*with* Geuvers, Herman) A simple model construction for the calculus of constructions. (English summary) **98e:03008**
Takeuti, Izumi An axiomatic system of parametricity. (English summary) **98g:03020**
Tammet, Tanel (*with* Smith, Jan M.) Optimized encodings of fragments of type theory in first order logic. (English summary) **98e:03009**
Urzyczyn, Paweł *see* **van Bakel, Steffen; et al., 98i:03016**
Wenzel, Markus Type classes and overloading in higher-order logic. (English summary) (*see* **98i:68018**)
Werner, Benjamin Sets in types, types in sets. (English summary) **98j:03002**

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Andrews, Peter B. (*with* Bishop, Matthew) On sets, types, fixed points, and checkerboards. (English summary) **98j:03007**
Barbanera, Franco (*with* Fernández, Maribel) Intersection type assignment systems with higher-order algebraic rewriting. (English summary) **98b:68006**
Barendregt, Henk *see* **Barthe, Gilles; et al., 98e:03013**
Barthe, Gilles (*with* Geuvers, Herman) Congruence types. (English summary) (*see* **98a:68002**)
— Implicit coercions in type systems. (English summary) **98e:03012**
— (*with* Ruys, Mark; Barendregt, Henk) A two-level approach towards lean proof-checking. (English summary) **98e:03013**
(Berardi, Stefano) *see* **Types for proofs and programs, 98d:03006**
Bishop, Matthew *see* **Andrews, Peter B., 98j:03007**
Bourdeau, Michel La théorie intuitionniste des types: sémantique des preuves et théorie des constructions. (English summary) [Intuitionistic type theory: semantics of proofs and theory of constructions] **98d:03061**
Choffrut, Christian (*with* Guerra, Leucio) Generalized rational relations and their logical definability. (English summary) (*see* **98i:68007**)
Church, Alonzo ★ Introduction to mathematical logic. (English summary) **98g:03001**
Compagnoni, Adriana B. (*with* Pierce, Benjamin C.) Higher-order intersection types and multiple inheritance. (English summary) **98b:68109**
Constable, Robert L. The structure of Nuprl's type theory. (*see* **98i:68008**)
(Coppo, Mario) *see* **Types for proofs and programs, 98d:03006**
Coquand, Thierry (*with* Smith, Jan M.) An application of constructive completeness. **98m:03082**
Cornes, Cristina (*with* Terrasse, Delphine) Automating inversion of inductive predicates in Coq. (English summary) **98e:03014**
Courcelle, Bruno The monadic second-order logic of graphs. IX. Machines and their behaviours. (English summary) **98d:68137**

— On the expression of graph properties in some fragments of monadic second-order logic. (English summary) **98f:03039**
Curmin, Philippe First order marked types. (English summary) **98e:03038**
Di Cosmo, Roberto (*with* Kesner, Delia) Combining algebraic rewriting, extensional lambda calculi, and fixpoints. (English summary) **98g:03041**
Dybjer, Peter Internal type theory. (English summary) **98e:03040**
Fagin, Ronald Comparing the power of games on graphs. (English summary) **98m:03085**
(Felty, Amy) *see* **Theorem proving in higher order logics, 98i:68018**
Fernández, Maribel *see* **Barbanera, Franco, 98b:68006**
Fu, Yu Xi Constructive sets in computable sets. (English summary) **98m:03121**
— Categorical properties of logical frameworks. (English summary) **98g:03150**
Geuvers, Herman Extending models of second order predicate logic to models of second order dependent type theory. (English summary) **98k:03073**
— *see also* **Barthe, Gilles, (98a:68002)**
Gilmore, Paul C. NaDSyL and some applications. (English summary) **98i:03074**
Gordon, Andrew D. (*with* Melham, Tom) Five axioms of alpha-conversion. (English summary) (*see* **98c:68024**)
Grandjean, Etienne (*with* Olive, Frédéric) Monadic logical definability of NP-complete problems. (English summary) **98f:68098**
(Grundy, J.) *see* **Theorem proving in higher order logics, 98c:68024**
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(Gunter, Elsa L.) *see* **Theorem proving in higher order logics, 98i:68018**
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Hindley, J. Roger ★ Basic simple type theory. **98k:03038**
Hofmann, Martin A simple model for quotient types. (English summary) (*see* **98e:03020**)
Idziak, Paweł M. (*with* Tyszkiewicz, Jerzy) Monadic second order probabilities in algebra. Directly representable varieties and groups. (English summary) **98i:03042**
Janin, David (*with* Walukiewicz, Igor) On the expressive completeness of the propositional mu-calculus with respect to monadic second order logic. (English summary) **98i:68191**
Jay, C. Barry Covariant types. (English summary) **98m:68026**
Joinet, Jean-Baptiste (*with* Schellinx, Harold; Tortora de Falco, Lorenzo) Strong normalization for all-style LK^{tq} (extended abstract). (English summary) (*see* **98i:03007**)
Joly, Thierry Un plongement de la logique classique du 2nd ordre dans AF_2. (English and French summaries) [An embedding of second-order classical logic into FA_2] **98g:03130**
Kabanets, Valentine Recognizability equals definability for partial k-paths. (English summary) **98m:68212**
Kesner, Delia *see* **Di Cosmo, Roberto, 98g:03041**
Kristiansen, Lill (*with* Normann, Dag) Total objects in inductively defined types. (English summary) **98m:03095**
Lifsches, Shmuel (*with* Shelah, Saharon) Uniformization, choice functions and well orders in the class of trees. (English summary) **98g:03098**
Magnusson, Lena An algorithm for checking incomplete proof objects in type theory with localization and unification. (English summary) (*see* **98d:03006**)
Melham, Tom *see* **Gordon, Andrew D., (98c:68024)**
Mocas, Sarah *see* **Schubert, Tom, 98g:94031**
Nederpelt, R. P. Type systems—basic ideas and applications. (*see* **98g:03038**)
Normann, Dag Hereditarily effective typestreams. (English summary) **98i:03060**
— *see also* **Kristiansen, Lill, 98m:03095**
Nour, Karim La valeur d'un entier classique en $\lambda\mu$-calcul. (English summary) [The value of a classical integer in $\lambda\mu$-calculus] **98m:03062**
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Paulin-Mohring, Christine Circuits as streams in Coq: verification of a sequential multiplier. (English summary) (*see* **98d:03006**)
Pierce, Benjamin C. *see* **Compagnoni, Adriana B., 98b:68109**
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Ranta, Aarne Context-relative syntactic categories and the formalization of mathematical text. (English summary) (*see* **98d:03006**)
Ruys, Mark *see* **Barthe, Gilles; et al., 98e:03013**
Ruzsa, Imre ★ Introduction to metalogic. **98m:03001**
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Schubert, Tom (*with* Mocas, Sarah) A mechanized logic for secure key escrow protocol verification. (English summary) **98g:94031**
Schwentick, Thomas Graph connectivity and monadic NP. (English summary) (*see* **98h:68008**)
Shelah, Saharon *see* **Lifsches, Shmuel, 98g:03098**
Smith, Jan M. *see* **Coquand, Thierry, 98m:03082**
Stewart, Iain A. Logics with zero-one laws that are not fragments of bounded-variable infinitary logic. (English summary) **98d:03051**
Straubing, Howard Finite models, automata, and circuit complexity. (English summary) **98b:68128**
Sullivan, Peter M. (*with* Potter, Michael) Hale on Caesar. (English summary) **98h:03009**
Terrasse, Delphine *see* **Cornes, Cristina, 98e:03014**
Thomas, Wolfgang On the synthesis of strategies in infinite games. (English summary) **98a:03062**
— Elements of an automata theory over partial orders. (English summary) **98j:68115**
Tortora de Falco, Lorenzo *see* **Joinet, Jean-Baptiste; et al., (98i:03007)**
Turner, Raymond Reading between the lines in constructive type theory. (English summary) **98c:03121**
Tyszkiewicz, Jerzy *see* **Idziak, Paweł M., 98i:03042**
Vedo, Anne Asymptotic probabilities for second-order existential Kahr-Moore-Wang sentences. (English summary) **98i:03043**
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Lecture Notes in Computer Science ★ Theorem proving in higher order logics. **98c:68024**
— ★ Types for proofs and programs. **98d:03006**
— ★ Theorem proving in higher order logics. **98i:68018**
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Theorem proving in higher order logics ★ Theorem proving in higher order logics. **98c:68024**
— ★ Theorem proving in higher order logics. **98i:68018**
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Types for proofs and programs ★ Types for proofs and programs. **98d:03006**
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Types for Proofs and Programs ★ Types for proofs and programs. **98d:03006**

03B20 Subsystems of classical logic (including intuitionistic logic)

Akama, Seiki (*with* Sylvan, Richard) Facts, semantics and intuitionism. (English summary) **98e:03010**
van Benthem, Johan Modal foundations for predicate logic. (English summary) **98b:03015**
Bunder, Martin W. *see* **Megill, Norman D., 98g:03023**
Buszkowski, Wojciech The finite model property for BCI and related systems. (English summary) **98g:03021**
van Dalen, Dirk Intuitionism—counting its blessings (preliminary version). (English summary) (*see* **98f:68009**)
Fam Din' Ng'em The role of model structures in a definition of logical consequence. (Russian. Russian summary) (*see* **98i:03005**)
Fariñas del Cerro, Luis (*with* Herzig, Andreas) Combining classical and intuitionistic logic. (English summary) **98c:03022**
Godart-Wendling, B. De l'influence du "principe de dualité" sur le traitement algébrique des phrases. [Influence of the duality principle on the algebraic treatment of sentences]
Herzig, Andreas *see* **Fariñas del Cerro, Luis, 98c:03022**
Johnson, Frederick A. Apodeictic syllogisms: deductions and decision procedures. (English summary) **98c:03023**
— Extended Gergonne syllogisms. (English summary) **98c:03024**
Kanai, N. Proof of the embedding of Aristotle's syllogistics into propositional logic. (Russian) (*see* **98i:03004**)
Karpenko, A. S. Implicational logics: lattices and constructions. (Russian) (*see* **98i:03004**)
Kremer, Philip On the complexity of propositional quantification in intuitionistic logic. (English summary) **98k:03020**
MacCaull, Wendy Kripke semantics for logics with BCK implication. (English summary) **98g:03022**
Megill, Norman D. (*with* Bunder, Martin W.) Weaker **D**-complete logics. (English summary) **98g:03023**
Miglioli, Pierangelo (*with* Moscato, Ugo; Ornaghi, Mario) Avoiding duplications in tableau systems for intuitionistic logic and Kuroda logic. (English summary) **98e:03011**
Mikulás, Szabolcs Gabbay-style calculi. (English summary) **98g:03024**
Minţs, Grigoriĭ Efroĭmovich Existential instantiation and strong normalization. (English summary) **98k:03021**
Moscato, Ugo *see* **Miglioli, Pierangelo; et al., 98e:03011**
Murphree, Wallace A. The numerical syllogism and existential presupposition. (English summary) **98m:03012**
Ornaghi, Mario *see* **Miglioli, Pierangelo; et al., 98e:03011**
Polacik, Tomasz Propositional quantification in intuitionistic logic. (*see* **98h:03004**)
Pym, David *see* **Ritter, Eike; et al., (98i:03007)**
Ratsa, M. F. Results on functional completeness in logical calculi. (Moldavian. English summary) **98g:03025**
Ritter, Eike (*with* Pym, David; Wallen, Lincoln A.) On the intuitionistic force of classical search (extended abstract). (English summary) (*see* **98i:03007**)
Skvortsov, D. P. A comparison of the deductive power of realizable propositional formulas. (Russian. Russian summary) (*see* **98i:03005**)
Slaney, J. K. Finite models for some substructural logics. (English summary) **98d:03014**
Smirnov, Vladimir Aleksandrovich[4] Proof search in natural intuitionistic predicate calculus with the ε-symbol and the predicate of existence. (Russian) (*see* **98i:03005**)
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Visser, Albert Uniform interpolation and layered bisimulation. (English summary) **98g:03026**
Voronkov, Andrei Proof-search in intuitionistic logic based on constraint satisfaction. (English summary) **98j:03003**
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Woliński, Artur Partial elementary logic. (English summary) **98m:03013**
Yashin, A. D. A new regular constant in intuitionistic propositional logic. (Russian. Russian summary) **98g:03027**
— New intuitionistic logical constants: undecidability of the conservativeness problem. (English summary) **98k:03022**
— On the number of new logical constants in intuitionistic propositional calculus. (Russian. Russian summary) **98g:03028**

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Baaz, Matthias (*with* Fermüller, Christian G.) Combining many-valued and intuitionistic tableaux. (English summary) **98j:03031**
Bell, John L. (*with* Gebellato, Silvia) Precovers, modalities and universal closure operators in a topos. (English summary) **98c:03136**
Béziau, Jean-Yves Théorie legislative de la négation pure. (English summary) [Pure legislative theory of negation] **98a:03010**
— *see also* **da Costa, Newton C. A., 98h:03014**
Boričić, Branislav Validity measurement in some propositional logics. (English summary) **98m:03050**
Brady, Ross T. Simplified Gentzenizations for contraction-less logics. **98m:03049**
— Simple Gentzenizations for the normal formulae of contraction-less logics. **98h:03031**
Coquand, Thierry (*with* Smith, Jan M.) An application of constructive completeness. **98m:03082**

da Costa, Newton C. A. (*with* Béziau, Jean-Yves) Théorie de la valuation. (French summary) [Theory of valuation] **98h:03014**
Degtyarëv, Anatoliĭ (*with* Voronkov, Andrei) Decidability problems for the prenex fragment of intuitionistic logic. (English summary) (*see* **98a:68006**)
Došen, Kosta Errata: "Deductive completeness" [Bull. Symbolic Logic **2** (1996), no. 3, 243–283; MR 97j:03118]. **Druzdzel, Marek J.** Five useful properties of probabilistic knowledge representations from the point of view of intelligent systems. (English summary) (*see* **98f:68008**)
Fermüller, Christian G. *see* **Baaz, Matthias**, **98j:03031**
Gebellato, Silvia *see* **Bell, John L.**, **98c:03136**
Grädel, Erich (*with* Otto, Martin; Rosen, Eric) Undecidability results on two-variable logics. (English summary) (*see* **98f:68016**)
Herbelin, Hugo A λ-calculus structure isomorphic to Gentzen-style sequent calculus structure. (English summary) **98f:03047**
Heuerding, Alain (*with* Seyfried, Michael; Zimmermann, Heinrich) Efficient loop-check for backward proof search in some non-classical propositional logics. (English summary) **98j:03023**
Hodkinson, Ian (*with* Simon, András) The k-variable property is stronger than H-dimension k. (English summary) **98a:03045**
Howe, Jacob M. Two loop detection mechanisms: a comparison. (English summary) (*see* **98k:03004**)
Joinet, Jean-Baptiste (*with* Schellinx, Harold; Tortora de Falco, Lorenzo) Strong normalization for all-style LK^{tq} (extended abstract). (English summary) (*see* **98i:03007**)
Kashima, Ryo Contraction-elimination for implicational logics. (English summary) **98c:03113**
Kreitz, Christoph *see* **Otten, Jens**, **98f:68250** *and* (**98i:03007**)
Krivtsov, V. N. Logics of a creative subject: conservativity with respect to intuitionistic predicate calculus. (Russian)
Lyubetskiĭ, V. A. On some applications of the semantic evaluation method. (Russian. Russian summary) **98i:03082**
Manekin, Charles H. Some aspects of the assertoric syllogism in medieval Hebrew logic. (English summary) **98c:03004**
Mulder, Dwayne Hudson The existential assumptions of traditional logic. (English summary) **98c:03017**
Németi, István A fine-structure analysis of first-order logic. (*see* **98b:03036**)
Otten, Jens (*with* Kreitz, Christoph) A uniform proof procedure for classical and non-classical logics. (English summary) **98f:68250**
— (*with* Kreitz, Christoph) T-string unification: unifying prefixes in non-classical proof methods. (English summary) (*see* **98i:03007**)
— ileanTAP: an intuitionistic theorem prover. (English summary) (*see* **98k:03004**)
Otto, Martin *see* **Grädel, Erich; et al.**, (**98f:68016**)
Palmgren, Erik Constructive sheaf semantics. (English summary) **98g:03151**
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Rosen, Eric *see* **Grädel, Erich; et al.**, (**98f:68016**)
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Schellinx, Harold *see* **Joinet, Jean-Baptiste; et al.**, (**98i:03007**)
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Skvortsov, D. P. Non-axiomatizable second order intuitionistic propositional logic. (English summary) **98g:03019**
Smith, Jan M. *see* **Coquand, Thierry**, **98m:03082**
Sundholm, Göran Implicit epistemic aspects of constructive logic. (English summary) **98i:03080**
Tammet, Tanel Resolution, inverse method and the sequent calculus. (English summary) **98k:03031**
Tortora de Falco, Lorenzo *see* **Joinet, Jean-Baptiste; et al.**, (**98i:03007**)
Turner, Raymond Reading between the lines in constructive type theory. (English summary) **98c:03121**
Urbas, Igor Dual-intuitionistic logic. (English summary) **98h:03035**
Veanes, Margus The undecidability of simultaneous rigid E-unification with two variables. (English summary) **98j:03061**
Voronkov, Andrei *see* **Degtyarëv, Anatoliĭ**, (**98a:68006**)
Wansing, Heinrich Strong cut-elimination in display logic. (English summary) **98a:03088**
Yankov, V. A. A dialogue interpretation of classical predicate calculus. (Russian. Russian summary) **98i:03015**
Zimmermann, Heinrich *see* **Heuerding, Alain; et al.**, **98j:03023**

03B22 Abstract deductive systems

Béziau, Jean-Yves *see* **da Costa, Newton C. A.**, **98h:03014**
da Costa, Newton C. A. (*with* Béziau, Jean-Yves) Théorie de la valuation. (French summary) [Theory of valuation] **98h:03014**
Gabbay, Dov M. An overview of fibred semantics and the combination of logics. (English summary) **98a:03012**
Gil, Àngel J. (*with* Torrens Torrell, Antoni; Verdú, Ventura) On Gentzen systems associated with the finite linear MV-algebras. (English summary) **98d:03015**
Grim, Patrick *see* **St. Denis, Paul**, **98k:03023**
Harandi, Mehdi *see* **Tinelli, Cesare**, **98b:03016**
Herrmann, Burghard Characterizing equivalential and algebraizable logics by the Leibniz operator. (English summary) **98j:03004**
Humberstone, I. L. Singulary extensional connectives: a closer look. (English summary) **98i:03018**
Hutchinson, Alan First order meta theories. (English summary) **98a:03013**
Inoué, Takao Corrections and additions to my paper: "A note on unprovability-preserving sound translations" [Logique et Anal. (N.S.) **33** (1990), no. 131, 243–257; MR 95c:03028], more general constructions. (English summary)
Sidorenko, E. A. The deduction theorem for classical and nonclassical calculi. (Russian) (*see* **98i:03004**)
St. Denis, Paul (*with* Grim, Patrick) Fractal images of formal systems. (English summary) **98k:03023**
Tinelli, Cesare (*with* Harandi, Mehdi) A new correctness proof of the Nelson-Oppen combination procedure. (English summary) **98b:03016**
Torrens Torrell, Antoni *see* **Gil, Àngel J.; et al.**, **98d:03015**
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Basin, David (*with* Matthews, Seán; Viganò, Luca) A topography of labelled modal logics. (English summary) **98h:03027**
Béziau, Jean-Yves Théorie legislative de la négation pure. (English summary) [Pure legislative theory of negation] **98a:03010**
Font, Josep Maria (*with* Jansana, Ramon) ★ A general algebraic semantics for sentential logics. **98a:03002**
Jansana, Ramon *see* **Font, Josep Maria**, **98a:03002**
Matthews, Seán *see* **Basin, David; et al.**, **98h:03027**
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Wybraniec-Skardowska, Urszula Unit operations. **98b:04001**

03B25 Decidability of theories and sets of sentences [see also 11U05, 12L05, 20F10]

Baader, Franz (*with* Tinelli, Cesare) A new approach for combining decision procedures for the word problem, and its connection to the Nelson-Oppen combination method. (English summary) **98d:03016**
Bellè, Dorella (*with* Parlamento, Franco) Decidability of the $\exists^*\forall^*$-class in the membership theory NWL. (English summary) **98a:03014**
Cantone, Domenico A fast saturation strategy for set-theoretic tableaux. (English summary) (*see* **98k:03004**)
Degtyarëv, Anatoliĭ (*with* Voronkov, Andrei) Decidability problems for the prenex fragment of intuitionistic logic. (English summary) (*see* **98a:68006**)
Delon, Françoise Q muni de l'arithmétique faible de Penzin est décidable. (English summary) [Q equipped with the weak Penzin arithmetic is decidable] **98d:03017**
Erdélyi-Szabó, Miklós Decidability of Scott's model as an ordered Q-vectorspace. (English summary) **98m:03014**
— Decidability in the constructive theory of reals as an ordered Q-vectorspace. (English summary) **98j:03005**
Grädel, Erich (*with* Kolaitis, Phokion G.; Vardi, Moshe Y.) On the decision problem for two-variable first-order logic. (English summary) **98d:03018**
Gurevich, Yuri (*with* Voronkov, Andrei) Monadic simultaneous rigid E-unification and related problems. (English summary) **98k:03024**
Inoué, Takao On the Härtig-style axiomatization of unprovable and satisfiable formulas of Bernays and Schönfinkel's classes. (English summary) **98c:03025**
Kolaitis, Phokion G. *see* **Grädel, Erich; et al.**, **98d:03018**
Komara, Ján (*with* Voda, Paul J.) On quasitautologies. (English summary) **98m:03015**
Korn, Daniel S. (*with* Kreitz, Christoph) Deciding intuitionistic propositional logic via translation into classical logic. (English summary) **98d:03019**
Kreitz, Christoph *see* **Korn, Daniel S.**, **98d:03019**
Kummer, Martin Walter (*with* Ott, Matthias) Effective strategies for enumeration games. (English summary) **98c:03026**
Maurin, Françoise The theory of integer multiplication with order restricted to primes is decidable. (English summary) **98h:03015**
Mikulás, Szabolcs Taming first-order logic. (English summary) **98k:03025**
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Perrier, G. A decidable fragment of second order linear logic. (English summary) **98k:03026**
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03Cxx Model theory

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— (*with* Shelah, Saharon) The Kaplansky test problems for $\aleph_1$-separable groups. (English summary) **98j:20080**
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— Nice locally global fields. III. (Russian. Russian summary) **98g:03091c**
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03C68 Other classical first-order model theory

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03C70 Logic on admissible sets

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03C75 Other infinitary logic

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— (*with* Lindell, Steven; Weinstein, Scott) Infinitary logic and inductive definability over finite structures. (English summary) **98g:03081**
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— *see also* **Dawar, Anuj; et al., (98c:68007)**
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— (*with* Nagashima, Takashi) Game logic and its applications. II. (English summary) **98g:03053**
Kolaitis, Phokion G. (*with* Vardi, Moshe Y.) On the expressive power of variable-confined logics. (English summary) (*see* **98a:68006**)
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03C80 Logic with extra quantifiers and operators [see also 03B45]

Alechina, Natasha (*with* van Lambalgen, Michiel) Generalized quantification as substructural logic. (English summary) **98a:03058**
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— (*with* Väänänen, Jouko; Westerståhl, Dag) Definability of polyadic lifts of generalized quantifiers. (English summary) **98j:03053**

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Book, Ronald V. (*with* Vollmer, Heribert; Wagner, Klaus W.) On type-2 probabilistic quantifiers. (English summary) **98e:68070**
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Dawar, Anuj (*with* Lindell, Steven; Weinstein, Scott) Infinitary logic and inductive definability over finite structures. (English summary) **98g:03081**
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03C90 Nonclassical models (Boolean-valued, sheaf, etc.)

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03C99 None of the above, but in this section

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— (*with* Delić, D.) Different levels of word problems for some varieties. (English summary) **98g:08008**
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Fuzzy Sets Theory and its Applications ★ Fuzzy sets. **98i:00019**

Fuzzy sets ★ Fuzzy sets. **98i:00019**

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03E75 Applications

Dehornoy, Patrick Another use of set theory. (English summary) **98g:03125**

Paulson, Lawrence C. A concrete final coalgebra theorem for ZF set theory. (English summary) **98h:03069**

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Augenstein, Bruno W. Links between physics and set theory. (English summary) **98h:00019**
Baumgartner, James E. (*with* Foreman, Matthew; Spinas, Otmar) The spectrum of the Γ-invariant of a bilinear space. (English summary) **98a:15056**
Eklof, Paul C. (*with* Shelah, Saharon) New nonfree Whitehead groups by coloring. (English summary) **98k:20091**
— Set theory generated by abelian group theory. **98g:03113**
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Jordan, Francis Cardinal invariants connected with adding real functions. (English summary) **98k:26006**
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Lisitsa, Alexei (*with* Sazonov, Vladimir Yu.) Δ-languages for sets and LOGSPACE computable graph transformers. (English summary) **98c:03087**
Natkaniec, Tomasz New cardinal invariants in real analysis. (English summary) **98a:26007**
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Zakrzewski, Piotr The uniqueness of Haar measure and set theory. **98m:28023**

03Fxx Proof theory and constructive mathematics

Arai, Toshiyasu From the attic. (English summary) (*see* **98f:03001**)
Gallier, Jean H. Erratum to: "What's so special about Kruskal's theorem and the ordinal Γ_0? A survey of some results in proof theory" [Ann. Pure Appl. Logic **53** (1991), no. 3, 199–260; MR 93b:03096]. **98j:03075**

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Ordinal Numbers in Proof Theory ★ Shōmei ron ni okeru junjo sū. [Ordinal numbers in proof theory] **98f:03001**
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03F03 Proof theory, general

Avigad, Jeremy (*with* Sommer, Richard) A model-theoretic approach to ordinal analysis. (English summary) **98g:03126**
Avron, Arnon The method of hypersequents in the proof theory of propositional non-classical logics. **98b:03074**
Buszkowski, Wojciech Grammatical structures and logical deductions. **98a:03086**
Ong, C.-H. L. A semantic view of classical proofs: type-theoretic, categorical, and denotational characterizations (preliminary extended abstract). (English summary) (*see* **98a:68006**)
Schwichtenberg, Helmut *see* **Troelstra, A. S., 98g:03127**
Sommer, Richard *see* **Avigad, Jeremy, 98g:03126**
Troelstra, A. S. (*with* Schwichtenberg, Helmut) ★ Basic proof theory. (English summary) **98g:03127**

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Alechina, Natasha (*with* van Lambalgen, Michiel) Generalized quantification as substructural logic. (English summary) **98a:03058**
Bourdeau, Michel La théorie intuitionniste des types: sémantique des preuves et théorie des constructions. (English summary) [Intuitionistic type theory: semantics of proofs and theory of constructions] **98d:03061**
Devlin, Keith The logical structure of computer-aided mathematical reasoning. **98j:00010**
Feferman, Solomon Gödel's program for new axioms: why, where, how and what? (English summary) **98b:03077**
Gabbay, Dov M. ★ Labelled deductive systems. Vol. 1. **98c:03003**
Kohlenbach, Ulrich Mathematically strong subsystems of analysis with low rate of growth of provably recursive functionals. (English summary) **98h:03073**
van Lambalgen, Michiel *see* **Alechina, Natasha, 98a:03058**
Makkai, Michael Generalized sketches as a framework for completeness theorems. I. (English summary) **98a:03103**
— Generalized sketches as a framework for completeness theorems. II. **98a:03104**
— Generalized sketches as a framework for completeness theorems. III. **98a:03105**
Mikulás, Szabolcs Gabbay-style calculi. (English summary) **98g:03024**
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Zhang, Yu Ping² (*with* Wang, Shi Qiang) A proof-theoretic characterization of model-theoretic weak forcing. (Chinese. English and Chinese summaries) **98b:03052**

03F05 Cut-elimination and normal-form theorems

Altenkirch, Thorsten (*with* Hofmann, Martin; Streicher, Thomas) Categorical reconstruction of a reduction free normalization proof. (*see* **98c:68008**)
Baaz, Matthias (*with* Leitsch, Alexander) Fast cut-elimination by projection. **98m:03112**
Carbone, Alessandra Interpolants, cut elimination and flow graphs for the propositional calculus. (English summary) **98i:03073**
— (*with* Semmes, Stephen) Making proofs without modus ponens: an introduction to the combinatorics and complexity of cut elimination. (English summary) **98c:03112**
Dragalin, Albert G. Cut-elimination in the theory of definable sets of natural numbers. (English summary) **98k:03112**
Gavrilovich, Misha Cut elimination for the second order propositional logic with Hilbert's ε-symbol, extensionality, and full comprehension. (English summary) **98k:03113**
Gilmore, Paul C. NaDSyL and some applications. (English summary) **98i:03074**
Guerrini, S. (*with* Martini, Simone; Masini, Andrea) Proof nets, garbage, and computations. (English summary) **98g:03128**
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Herbelin, Hugo A λ-calculus structure isomorphic to Gentzen-style sequent calculus structure. (English summary) **98f:03047**
Hofmann, Martin *see* **Altenkirch, Thorsten; et al., (98c:68008)**
Joinet, Jean-Baptiste (*with* Schellinx, Harold; Tortora de Falco, Lorenzo) Strong normalization for all-style LK^{tq} (extended abstract). (English summary) (*see* **98i:03007**)
Kashima, Ryo Contraction-elimination for implicational logics. (English summary) **98c:03113**
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Preining, Norbert Sketch-as-proof. (English summary) **98j:03076**
Restall, Greg Display logic and gaggle theory. (English summary) **98a:03087**
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Schellinx, Harold *see* **Joinet, Jean-Baptiste; et al., (98i:03007)**
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Wansing, Heinrich Strong cut-elimination in display logic. (English summary) **98a:03088**

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Andou, Yuuki A system of $\lambda\mu$-calculus proper to the implicational fragment of classical natural deduction with one conclusion. (English summary) (*see* **98f:03001**)
Avron, Arnon The method of hypersequents in the proof theory of propositional non-classical logics. **98b:03074**
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Blute, R. F. (*with* Cockett, J. R. B.; Seely, R. A. G.) Categories for computation in context and unified logic. (English summary) **98f:68170**
Brady, Ross T. Simplified Gentzenizations for contraction-less logics. **98m:03049**
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Egly, Uwe On different structure-preserving translations to normal form. (English summary) **98c:03032**
Engel, Pascal La signification philosophique du calcul des séquents. [The philosophical meaning of the sequent calculus] **98a:03007**
Felleisen, Matthias (*with* Weeks, Stephen) On the orthogonality of assignments and procedures in ALGOL. (English summary) **98d:68036**
Gordeev, L. Cut free formalization of logic with finitely many variables. I. (*see* **98d:68013**)
Goré, Rajeev Cut-free display calculi for relation algebras. (English summary) **98k:03121**
Hirokawa, Sachio (*with* Komori, Yuichi; Takeuti, Izumi) A reduction rule for Peirce formula. (English summary) **98b:03021**
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— A normal form for arithmetical derivations implying the ω-consistency of arithmetic. (English summary) **98m:03116**
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Kakuda, Yuzuru Existence and consistence. **98g:03153**
Komori, Yuichi *see* **Hirokawa, Sachio; et al., 98b:03021**
Krupskiĭ, V. N. Operational logic of proofs with functionality condition on proof predicate. (English summary) **98k:03045**
Martini, Simone (*with* Masini, Andrea) A computational interpretation of modal proofs. **98a:03024**
— (*with* Masini, Andrea) Experiments in linear natural deduction. (English summary) **98g:03136**
Masini, Andrea *see* **Martini, Simone, 98a:03024** *and* **98g:03136**
Schellinx, Harold A linear approach to modal proof theory. (English summary) **98d:03030**
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Urbas, Igor Dual-intuitionistic logic. (English summary) **98h:03035**

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03F07 Structure of proofs

Baaz, Matthias (*with* Salzer, Gernot) Semi-unification and generalizations of a particularly simple form. (English summary) (*see* **98d:68013**)
Basin, David (*with* Matthews, Seán) Adding metatheoretic facilities to first-order theories. (English summary) **98b:03075**
Belnap, Nuel The display problem. (English summary) **98g:03129**
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Danos, Vincent (*with* Joinet, Jean-Baptiste; Schellinx, Harold) Computational isomorphisms in classical logic (extended abstract). (English summary) (*see* **98f:68009**)
Egly, Uwe Some pitfalls of LK-to-LJ translations and how to avoid them. (English summary) **98d:03059**
Fujita, Ken-etsu μ-head form proofs with at most two formulas in the succedent. (English summary) **98c:03114**
Hilken, Barnaby P. (*with* Rydeheard, David E.) A theory of classes: proofs and models. (English summary) **98h:03070**
Joinet, Jean-Baptiste *see* **Danos, Vincent; et al.**, (**98f:68009**)
Joly, Thierry Un plongement de la logique classique du 2nd ordre dans AF_2. (English and French summaries) [An embedding of second-order classical logic into FA_2] **98g:03130**
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Retoré, Christian Perfect matchings and series-parallel graphs: multiplicative proof nets as R&B-graphs (extended abstract). (English summary) (*see* **98f:68009**)
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Tennant, Neil Delicate proof theory. **98i:03075**
Yasugi, Mariko (*with* Nakata, Masahiro) An examination of natural reasoning in NDK. (Japanese) (*see* **98f:03001**)

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Barbanera, Franco (*with* Berardi, Stefano) A constructive valuation semantics for classical logic. (English summary) **98g:03016**
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Blute, R. F. (*with* Cockett, J. R. B.; Seely, R. A. G.) Categories for computation in context and unified logic. (English summary) **98f:68170**
Cerrato, Claudio Modal sequents. **98a:03020**
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Fitting, Melvin leanTAP revisited. (English summary) **98i:68246**
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— (*with* Masini, Andrea) Experiments in linear natural deduction. (English summary) **98g:03136**
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03F15 Recursive ordinals and ordinal notations

Arai, Toshiyasu Introducing the hardline in proof theory. (*see* **98f:03001**)
Deuber, Walter A. (*with* Thumser, Wolfgang) A combinatorial approach to complexity theory via ordinal hierarchies [MR 95i:03124]. (English summary) (*see* **98d:00027**)
Hamano, Masahiro (*with* Okada, Mitsuhiro) A hierarchy of the fragments of the system of inductive definition (preliminary report). (*see* **98f:03001**)
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Di Paola, Robert A. (*with* Montagna, Franco) Progressions of theories of bounded arithmetic. **98j:03079**
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03F20 Complexity of proofs

Arai, Noriko H. Tractability of cut-free Gentzen type propositional calculus with permutation inference. (*see* **98a:68008**)
— Tractability of cut-free Gentzen type propositional calculus with permutation inference. (English summary) **98c:03115**
— Bounded arithmetic vs. propositional calculus. (*see* **98f:03001**)
Beame, Paul W. (*with* Impagliazzo, Russell; Krajíček, Jan; Pitassi, Toniann; Pudlák, Pavel) Lower bounds on Hilbert's Nullstellensatz and propositional proofs. (English summary) (*see* **98h:68008**)
— *see also* **Proof complexity and feasible arithmetics**, **98g:03132**
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Kikuchi, Makoto On Buss and Turán's extensions of Haken's results. (*see* **98f:03001**)
Krajíček, Jan A fundamental problem of mathematical logic. **98g:03131**
— Interpolation theorems, lower bounds for proof systems, and independence results for bounded arithmetic. (English summary) **98k:03116**
— *see also* **Beame, Paul W.; et al.**, (**98h:68008**)
Pitassi, Toniann Algebraic propositional proof systems. (English summary) **98d:03060**
— *see also* **Beame, Paul W.; et al.**, (**98a:68008**)
Pudlák, Pavel (*with* Buss, Samuel R.) How to lie without being (easily) convicted and the lengths of proofs in propositional calculus. (English summary) **98f:03049**
— On the lengths of proofs of consistency: a survey of results. **98b:03076**
— Lower bounds for resolution and cutting plane proofs and monotone computations. (English summary) **98m:03114**
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Razborov, A. A. Lower bounds for propositional proofs and independence results in bounded arithmetic. (English summary) **98e:03032**
Stein, Sherman K. The combinatorial degrees of proofs and equations. (English summary) **98a:03089**
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Bonet, Maria (*with* Pitassi, Toniann; Raz, Ran) Lower bounds for cutting planes proofs with small coefficients. (English summary) **98m:03084**
Franco, John V. Relative size of certain polynomial time solvable subclasses of satisfiability. (English summary) **98i:68102**
— *see also* **Gu, Jun; et al.**, **98k:90084**
Gu, Jun (*with* Purdom, Paul Walton, Jr.; Franco, John V.; Wah, Benjamin W.) Algorithms for the satisfiability (SAT) problem: a survey. (English summary) **98k:90084**
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Iwama, Kazuo (*with* Takaki, Kazuya) Satisfiability of 3CNF formulas with small clause/variable-ratio. (English summary) **98k:90060**
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03F25 Relative consistency and interpretations

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Shavrukov, V. Yu. Interpreting reflexive theories in finitely many axioms. (English summary) **98k:03117**
Vuković, Mladen Some correspondences of principles in interpretability logic. (English summary) **98i:03076**

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Beklemishev, Lev D. Induction rules, reflection principles, and provably recursive functions. (English summary) **98h:03072**

Feferman, Solomon (*with* Jäger, Gerhard) Systems of explicit mathematics with non-constructive μ-operator. II. (English summary) **98b:03081**
Glaß, Thomas (*with* Rathjen, Michael; Schlüter, Andreas) On the proof-theoretic strength of monotone induction in explicit mathematics. (English summary) **98e:03035**
Inoué, Takao Corrections and additions to my paper: "A note on unprovability-preserving sound translations" [Logique et Anal. (N.S.) **33** (1990), no. 131, 243–257; MR 95c:03028], more general constructions. (English summary)
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03F30 First-order arithmetic and fragments

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Beklemishev, Lev D. Parameter free induction and reflection. (English summary) **98j:03078**
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Borrego-Díaz, Joaquín (*with* Fernández-Margarit, Alejandro; Pérez-Jiménez, Mario) On overspill principles and axiom schemes for bounded formulas. (English summary) **98c:03117**
Di Paola, Robert A. (*with* Montagna, Franco) Progressions of theories of bounded arithmetic. **98j:03079**
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— The constructive provability of a restricted axiom of double induction in the free variable additive arithmetic. (English and Lithuanian summaries) **98i:03077**
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Meyer, Robert K. Kurt Gödel and the consistency of $\mathrm{R}^{\#\#}$. (English summary) **98b:03079**
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Deuber, Walter A. (*with* Thumser, Wolfgang) A combinatorial approach to complexity theory via ordinal hierarchies [MR 95i:03124]. (English summary) (*see* **98d:00027**)
Dougherty, Randall (*with* Jech, Thomas) Left-distributive embedding algebras. (English summary) **98b:20114**
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Fribourg, Laurent (*with* Olsén, Hans) Proving safety properties of infinite state systems by compilation into Presburger arithmetic. (English summary) (*see* **98h:68005**)
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— Some systems of second-order arithmetic—an analysis based on model-theoretic methods. III. (Japanese) (*see* **98f:03001**)
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Gallier, Jean H. Erratum to: "What's so special about Kruskal's theorem and the ordinal Γ_0? A survey of some results in proof theory" [Ann. Pure Appl. Logic **53** (1991), no. 3, 199–260; MR 93b:03096]. **98j:03075**
Glaß, Thomas (*with* Rathjen, Michael; Schlüter, Andreas) On the proof-theoretic strength of monotone induction in explicit mathematics. (English summary) **98e:03035**
Hamano, Masahiro (*with* Okada, Mitsuhiro) A hierarchy of the fragments of the system of inductive definition (preliminary report). (*see* **98f:03001**)
Hasegawa, Ryu A logical aspect of parametric polymorphism. (English summary) **98c:03074**
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— (*with* Cockett, J. R. B.; Seely, R. A. G.) ! and ?—storage as tensorial strength. (English summary) **98a:03094**
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— (*with* Rathjen, Michael; Schlüter, Andreas) On the proof-theoretic strength of monotone induction in explicit mathematics. (English summary) **98e:03035**
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— (*with* Okada, Mitsuhiro) Characterization theorems for multiplicative fragment of intuitionistic non-commutative linear logic (preliminary report). (English summary) (*see* **98f:03001**)
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— (*with* Hodas, Joshua S.; Pfenning, Frank) Efficient resource management for linear logic proof search. (English summary) (*see* **98e:68003**)
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Okada, Mitsuhiro Phase semantics for higher order completeness, cut-elimination and normalization proofs (extended abstract). (English summary) (*see* **98f:68009**)
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Bell, John L. (*with* Gebellato, Silvia) Precovers, modalities and universal closure operators in a topos. (English summary) **98c:03136**
Bonner, Anthony J. Intuitionistic deductive databases and the polynomial time hierarchy. (English summary) **98h:68049**
Borisavljević, Mirjana Linear multicategories. (English summary) **98h:03074**
Bourdeau, Michel La théorie intuitionniste des types: sémantique des preuves et théorie des constructions. (English summary) [Intuitionistic type theory: semantics of proofs and theory of constructions] **98d:03061**
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Dybjer, Peter Internal type theory. (English summary) **98e:03040**
Erdélyi-Szabó, Miklós Decidability of Scott's model as an ordered **Q**-vectorspace. (English summary) **98m:03014**
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Milošević, Radivoje R. (*with* Romano, Daniel Avraám; Vinčić, M.) A note on two problems in constructive set theory. (English summary) **98i:03071**
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03F60 Constructive and recursive analysis [see also 26E40, 46S30, 47S30]

Berardi, Stefano (*with* Bezem, Marc; Coquand, Thierry) A realization of the negative interpretation of the axiom of choice. (English summary) **98f:03053**
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Romano, Daniel Avraám Coequality relations. A survey. **98j:03089**
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Weihrauch, Klaus (*with* Zheng, Xizhong) Computability on continuous, lower semi-continuous and upper semi-continuous real functions (extended abstract). (English summary) (*see* **98k:68004**)
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Banaschewski, Bernhard (*with* Mulvey, Christopher J.) A constructive proof of the Stone-Weierstrass theorem. (English summary) **98d:46028**
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Hertling, Peter Topological complexity with continuous operations. (English summary) **98c:68051**
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Novak, Erich (*with* Woźniakowski, Henryk) Topological complexity of zero-finding. (English summary) **98c:68052**
Palmgren, Erik Constructive nonstandard analysis. (*see* **98h:03084**)
Pour-El, Marian B. (*with* Zhong, Ning[1]) The wave equation with computable initial data whose unique solution is nowhere computable. (English summary) **98m:03097**
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03F65 Other constructive mathematics [see also 26E40, 46S30, 47S30]

Coquand, Thierry Minimal invariant spaces in formal topology. **98i:03083**
Curmin, Philippe First order marked types. (English summary) **98e:03038**
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03F99 None of the above, but in this section

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03Gxx Algebraic logic

03G05 Boolean algebras [see also 06Exx]

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Marriott, Kim (*with* Odersky, Martin) Negative Boolean constraints. (English summary) **98c:03125**
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Goncharov, Sergei S. ★ Счетные булевы алгебры и разрешимость. (Russian. Russian summary) [Countable Boolean algebras and decidability] **98h:03044a**
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Hayase, Kazuyoshi On relationship between a monotone function and the set of its prime implicants in OBDD size. (English summary) (*see* **98a:68008**)
He, Pin Pin Boolean algebras and subtraction algebras. (Chinese. English and Chinese summaries) **98a:06021**
Kasim-Zade, O. M. On the synthesis of networks composed of functional elements. (Russian) **98h:94032**
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Krajči, S. (*with* Vojtáš, Peter) On the Boolean structure generated by Q-points of ω. (English summary) **98d:03054**
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03G10 Lattices and related structures [see also 06Bxx]

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Jun, Young Bae Implicative filters of lattice implication algebras. **98g:03142**
— (*with* Xu, Yang) On right regular maps of lattice implication algebras. (English summary) **98d:03063**
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Fletcher, Peter (*with* Frith, J.; Hunsaker, Worthen N.; Schauerte, A.) The Nachbin quasi-uniformity of a bi-Stonian space. (English summary) **98g:54056**
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Humberstone, I. L. Singulary extensional connectives: a closer look. (English summary) **98i:03018**
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Jun, Young Bae (*with* Roh, Eun Hwan; Xu, Yang) LI-ideals in lattice implication algebras. (English summary) **98j:06002**
— (*with* Xu, Yang; Qin, Ke Yun) Positive implicative and associative filters of lattice implication algebras. (English summary) **98j:06003**
Kearnes, Keith A. The class of prime semilattices is not finitely axiomatizable. **98c:06003**
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03G12 Quantum logic [see also 81P10]

Belavkin, V. P. The semilogics, quasilogics and other quantum structures. (English summary) **98c:03126**
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— (*with* Riečan, Beloslav) Weak law of large numbers for weak observables in MV algebras. (English summary) **98j:03090**
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McCune, William Automatic proofs and counterexamples for some ortholattice identities. (English summary) **98m:03125**
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Dorfer, Gerhard (*with* Dvurečenskij, Anatolij; Länger, Helmut) Symmetric difference in orthomodular lattices. (English summary) **98h:06019**
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Duchoň, Miloslav (*with* Dvurečenskij, Anatolij; de Lucia, Paolo) Moment problem for effect algebras. (English summary) **98k:81019**
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— (*with* Svozil, Karl) Ideals in ortholattices, Bell inequalities, and simultaneously definite properties. (English summary) **98k:81021**
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03G15 Cylindric and polyadic algebras; relation algebras

Andréka, Hajnal (*with* Givant, Steven; Németi, István) Decision problems for equational theories of relation algebras. (English summary) **98e:03039**
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Bredikhin, D. A. On algebras of relations. **98b:03086**
— On quasi-identities of relation algebras with Diophantine operations. (Russian. Russian summary) **98g:03144**
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Durán, Juan Eduardo Some classes containing a fork algebra equivalent variety involving projections. (English summary) **98m:03126**
Ferenczi, Miklos On inducing cylindrical homomorphism by point function.
Frias, Marcelo F. (*with* Haeberer, Armando M.; Veloso, Paulo A. S.) A finite axiomatization for fork algebras. (English summary) **98d:03065**
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— (*with* Hodkinson, Ian) Step by step—building representations in algebraic logic. (English summary) **98g:03145**
— (*with* Hodkinson, Ian) Axiomatising various classes of relation and cylindric algebras. (English summary) **98g:03146**
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Madarász, J. X. (*with* Németi, István; Sági, Gábor) On the finitization problem of relation algebras (completeness problem for the finite variable fragments). (English summary)
Maddux, Roger D. Finitary axiomatizations of the true relational equations. **98b:03089**
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— (*with* Simon, András) Relation algebras from cylindric and polyadic algebras. (English summary)
— (*with* Sági, Gábor) On the equational theory of representable polyadic equality algebras (extended abstract). (English summary)
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Thompson, Richard J. Complete description of substitutions in cylindric algebras and other algebraic logics. **98c:03130**
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— Characterisations for fork algebras and their relational reducts. (English summary)
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— (*with* Baum, Gabriel A.; Haeberer, Armando M.) Representability and program construction within fork algebras. (English summary) **98m:68180**
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— (*with* Maddux, Roger D.) Nonrepresentable sequential algebras. (English summary) **98j:03092**
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Pelletier, J. Wick (*with* Rosický, Jiří) Simple involutive quantales. (English summary) **98m:06007**
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03G20 Łukasiewicz and Post algebras [see also 06D25, 06D30]

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Di Nola, Antonio (*with* Georgescu, Georges) Projective limits of MV-spaces. (English summary) **98d:06015**
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Gil, Àngel J. (*with* Torrens Torrell, Antoni; Verdú, Ventura) On Gentzen systems associated with the finite linear MV-algebras. (English summary) **98d:03015**
Mukaidono, Masao Algebras of fuzzy logic. (English summary) (*see* **98h:00035**)
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03G25 Other algebras related to logic [see also 06F35]

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Georgescu, Georges (*with* Liguori, Fortuna; Martini, Giulia) Convergence in MV-algebras. (English summary) **98g:03147**
— *see also* **Filipoiu, A.; et al., 98c:03133**
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Hong, Sung Min (*with* Jun, Young Bae) On deductive systems of Hilbert algebras. (English summary) **98a:03100**
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— Mathematische Modelle zum Kontinuum und zur Kontinuität. [Mathematical models for the continuum and for continuity] **98h:00009**
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Li, Bang-He (*with* Li, Ya-Qing) Optimal estimation of shell thickness in Cutland's construction of Wiener measure. (English summary) **98c:28027**
Li, Ya-Qing *see* **Li, Bang-He**, **98c:28027**
Loeb, Peter Albert Nonstandard analysis and topology. (*see* **98i:03006**)
— (*with* Osswald, Horst) Nonstandard integration theory in topological vector lattices. (English summary) **98m:28046**
Makhlouf, Abdenacer Algèbres associatives et calcul formel. (English and French summaries) [Associative algebras and computer algebra] **98i:16001**
Manevitz, Larry M. (*with* Merzbach, Ely) Multi-parameter stochastic processes via nonstandard analysis. (English summary) **98e:60071**
Mawhin, Jean Intégration et analyse non standard. [Integration and nonstandard analysis] (*see* **98h:03084**)
McGee, Vann Learning the impossible. **98h:03034**

Merzbach, Ely *see* **Manevitz, Larry M., 98e:60071**
Michel, Franck Asymptotique de solutions oscillantes d'équations différentielles. [Asymptotics of oscillating solutions of differential equations] **98f:34083**
Molchanov, Vladimir A. Nonstandard convergences on relation algebras. **98m:03128**
— A nonstandard approach to compact inverse semigroups of local homeomorphisms. **98m:54009**
Mortensen, Chris ★ Inconsistent mathematics. (English summary) **98k:03002**
Nelson, Edward ★ Радикально элементарная теория вероятностей. (Russian. Russian summary) [Radically elementary probability theory] **98d:60002**
Ng, Siu-Ah Elementary remarks on Anderson's hyperfinite random walk. (English summary) **98f:60137**
Ortiz, C. E. Approximate truth and nonstandard analysis. (English summary) (*see* **98h:03084**)
Osswald, Horst *see* **Loeb, Peter Albert, 98m:28046**
Parker, June M. *see* **Capiński, Marek, 98c:28026**
Reeken, Michael *see* **Kanovei, Vladimir, 98m:03111**
Rouche, N. *see* **Gilbert, Thérèse, (98h:03084)**
(Ruban, An. A.) *see* **Nelson, Edward, 98d:60002**
Schlesinger, Karl-Georg Stability concepts in topological dynamics by nonstandard methods. (English summary) **98j:54076**
Sun, Yeneng Distributional properties of correspondences on Loeb spaces. (English summary) **98b:28020**
Tchizawa, Kiyoyuki On a coordinate transformation to express an explicit duck solution in the FitzHugh-Nagumo equation. (English summary) (*see* **98b:00027**)
— *see also* **Kakiuchi, Nobuhiko, 98m:34081**
Vakil, Nader Pseudo-uniform convergence, a nonstandard treatment. (English summary) **98e:46029**
Valenti, Santi From the integers to the hyperreal numbers. A step-by-step introduction to nonstandard analysis. (Italian) **98k:13001**
Wantiez, P. Limites d'espaces métriques et ultraproduits. [Limits of metric spaces and ultraproducts] (*see* **98h:03084**)
Weydert, Emil Numeric defaults: about an expressive first-order framework for reasoning with infinitesimal probabilities. (*see* **98c:68020**)
Woods, Alan R. Approximating the structures accepted by a constant depth circuit or satisfying a sentence—a nonstandard approach. (English summary) **98h:03040**
Wu, Jiang Lun *see* **Albeverio, Sergio, 98e:81100**
Wu, Kangping The strict positivity in a nonstandard hull and its applications to economics. (English summary) **98b:46011**
Zhang, Fu Tai (*with* Feng, Hanqiao) The topological structures of the hyperreal number field $^*R$. (English and Chinese summaries)
— Topologies derived from an internal hyperreal metric. (Chinese. English and Chinese summaries)

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Edinburgh ★ Nonstandard analysis. **98i:03006**
NATO Advanced Study Institute:
Nonstandard Analysis and its Applications ★ Nonstandard analysis. **98i:03006**
Nonstandard analysis ★ Nonstandard analysis. **98i:03006**

03H10 Other applications of nonstandard models (economics, physics, etc.)

Items with secondary classifications in 03H10

Arkeryd, Leif O. Applications of NSA to mathematical physics. (English summary) (*see* **98i:03006**)
Kreinovich, Vladik (*with* Longpré, Luc) Nonstandard (non-σ-additive) probabilities in algebraic quantum field theory. (English summary) **98i:81031**
Laugwitz, Detlef Mathematische Modelle zum Kontinuum und zur Kontinuität. [Mathematical models for the continuum and for continuity] **98h:00009**
Longpré, Luc *see* **Kreinovich, Vladik, 98i:81031**
Nakamura, Toru Path space measures for Dirac and Schrödinger equations: nonstandard analytical approach. (English summary) **98g:81111**
— Path integrals through nonstandard analysis. (Japanese) (*see* **98h:00038**)
Ozawa, Masanao Phase operator problem and macroscopic extension of quantum mechanics. (English summary) **98e:81018**

03H15 Nonstandard models of arithmetic [see also 11U10, 12L15, 13L05]

Items with secondary classifications in 03H15

Bamber, Nicholas *see* **Kossak, Roman, 98m:03073**
Borrego-Diaz, Joaquin (*with* Fernández-Margarit, Alejandro; Pérez-Jiménez, Mario) On overspill principles and axiom schemes for bounded formulas. (English summary) **98c:03117**
Fernández-Margarit, Alejandro *see* **Borrego-Diaz, Joaquin; et al., 98c:03117**
Kossak, Roman What are infinitesimals and why they cannot be seen. **98j:03095**
— (*with* Bamber, Nicholas) On two questions concerning the automorphism groups of countable recursively saturated models of PA. (English summary) **98m:03073**
Pérez-Jiménez, Mario *see* **Borrego-Diaz, Joaquin; et al., 98c:03117**
Priest, Graham Inconsistent models of arithmetic. I. Finite models. (English summary) **98c:03065**
Tanaka, Kazuyuki[1] The self-embedding theorem of WKL_0 and a non-standard method. (English summary) **98b:03082**
Woods, Alan R. Approximating the structures accepted by a constant depth circuit or satisfying a sentence—a nonstandard approach. (English summary) **98h:03040**
Yamaguchi, Jinsei Boolean algebraic structure on [0, 1]. (English summary) **98d:03045**
Zambella, Domenico Forcing in finite structures. (English summary) **98m:03078**

04–XX Set theory [see also 03Exx]

04–01 Instructional exposition (textbooks, tutorial papers, etc.)

Adamson, Iain T. ★ A set theory workbook. (English summary)
Amor Montaño, José Alfredo ★ Teoría de conjuntos. (Spanish. Spanish summary) [Set theory]
Bencze, Mihály *see* **Popovici, Florin**
Johnson, David Lawrence ★ Elements of logic via numbers and sets. (English summary)
Popovici, Florin (*with* Bencze, Mihály) The transfinite induction as a characteristic property of the well ordered sets.
— (*with* Bencze, Mihály) A characterization of the set of natural numbers in the class of totally ordered sets.

Items with secondary classifications in 04–01

Berge, Claude ★ Topological spaces. (English summary) **98g:54001**
Drake, F. R. (*with* Singh, Dasharath) ★ Intermediate set theory. **98a:03001**
Klir, George J. (*with* St. Clair, Ute; Yuan, Bo) ★ Fuzzy set theory. (English summary) **98h:04007**
(Patterson, E. M.) *see* **Berge, Claude**, **98g:54001**
Schechter, Eric ★ Handbook of analysis and its foundations. **98b:00009**
Singh, Dasharath *see* **Drake, F. R.**, **98a:03001**
St. Clair, Ute *see* **Klir, George J.; et al.**, **98h:04007**
Truss, J. K. ★ Foundations of mathematical analysis. **98m:00003**
Yuan, Bo *see* **Klir, George J.; et al.**, **98h:04007**

04–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 04–02

Shelah, Saharon The pcf theorem revisited. (English summary) **98b:03068**

04–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 04–03

(Cantor, Georg) *see* **Rodríguez Salinas, Baltasar**, **98f:01032** *and* **Rigamonti, Gianni**, **98j:00009**
Dreben, Burton (*with* Kanamori, Akihiro) Hilbert and set theory. **98h:01019**
Hajnal, András Paul Erdős' set theory. **98b:01031**
(Hilbert, David[1]) *see* **Dreben, Burton**, **98h:01019**
Igoshin, V. I. Pages from a biography of Mikhail Yakovlevich Suslin. (Russian) **98d:01039**
Kanamori, Akihiro The mathematical import of Zermelo's well-ordering theorem. **98k:01013**
— *see also* **Dreben, Burton**, **98h:01019**
Rigamonti, Gianni Are there revolutions in mathematics? The case of Cantor. (Italian. Italian summary) **98j:00009**
Rodríguez Salinas, Baltasar Cantor and set theory. (Spanish) **98f:01032**
(Suslin, Mikhail Yakovlevich) *see* **Igoshin, V. I.**, **98d:01039**
Vilela, Denise Silva The subjectivism of the notion of order in Georg Cantor's theory of transfinite numbers. (Portuguese. Portuguese summary) **98f:01038**

Items listed otherwise than by author

Biography:
Cantor, Georg *see* **Rodríguez Salinas, Baltasar**, **98f:01032**

04–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 04–06

(Booth, David Douglas) *see* **Finsler, Paul**, **98g:03008**
Finsler, Paul ★ Finsler set theory: Platonism and circularity. (English summary) **98g:03008**
(Mesiar, Radko) *see* **Fuzzy structures**, **98e:04004**
(Riečan, Beloslav) *see* **Fuzzy structures**, **98e:04004**
(Ziegler, Renatus) *see* **Finsler, Paul**, **98g:03008**

Items listed otherwise than by author

Biography:
Finsler, Paul *see* **Finsler, Paul**, **98g:03008**
From rough sets to soft computing ★ From rough sets to soft computing. **98e:04003**
Fuzzy structures ★ Fuzzy structures. **98e:04004**
Workshop:
Rough Set Theory ★ From rough sets to soft computing. **98e:04003**
Wrightsville Beach, NC ★ From rough sets to soft computing. **98e:04003**

04A03 Set algebra

Bounias, M. Definition and some properties of set-differences, instans and their momentum, in the search for probationary mathematical spaces. (English summary)

Items with secondary classifications in 04A03

Massol, A. Minimality of the system of seven equations for the category of finite sets. (English summary) **98h:18007**

04A05 Relations, functions [see also 08A02]

Bandler, Wyllis (*with* Kohout, Ladislav J.) On the universality of the triangle superproduct and the square product of relations. (English summary) **98c:04001**
Boolos, George Stephen Constructing Cantorian counterexamples. (English summary) **98c:04002**
Dasgupta, Utpal A note on p-relations. (English summary) **98a:04001**
Djambov, Velichko A generalization of properties related to classes of sets. (Russian summary)
Dong, Nai Chang Transfinite ordered sets and transfinite induction. (Chinese. English and Chinese summaries)
Doornbos, Hendrik (*with* von Karger, Burghard) On the union of well-founded relations. (English summary) (*see* **98k:68018**)
Froidure, V. Ranks of binary relations. (English summary) **98h:04001**
Karásek, Jiří Double n-ary relational structures. (English summary) **98k:04001**
von Karger, Burghard *see* **Doornbos, Hendrik**, (**98k:68018**)
Kohout, Ladislav J. *see* **Bandler, Wyllis**, **98c:04001**
Pavlovskiĭ, Yu. N. On P- and F-decompositions of Σ-objects. (Russian) **98j:04001**
Száz, Árpád Topological characterizations of relational properties. **98f:04001**
Wybraniec-Skardowska, Urszula Unit operations. **98b:04001**

Items with secondary classifications in 04A05

Aharoni, Ron A few remarks on a conjecture of Erdős on the infinite version of Menger's theorem. (English summary) **98b:04003**
Backhouse, Roland *see* **Doornbos, Hendrik; et al.**, **98i:68187**
Burke, Maxim R. A proof of Hechler's theorem on embedding $\aleph_1$-directed sets cofinally into $(\omega^\omega, <^*)$. (English summary) **98k:03101**
Doktorovich, A. B. The "betweenness" relation and support sets. (Russian) **98m:00008**
Doornbos, Hendrik (*with* Backhouse, Roland; van der Woude, Jaap) A calculational approach to mathematical induction. (English summary) **98i:68187**
Duffus, D. (*with* Goddard, T.) The complexity of the fixed point property. (English summary) **98h:06006**
Dutta, Bhaskar (*with* Sen, Arunava) Ranking opportunity sets and Arrow impossibility theorems: correspondence results. (English summary) **98a:90013**
Farley, Jonathan David Perfect sequences of chain-complete posets. (English summary) **98h:06001**
Goddard, T. *see* **Duffus, D.**, **98h:06006**
Grzech, Magdalena On automorphisms of Boolean algebras embedded in $P(\omega)$/fin. (English summary) **98c:03105**
Klaška, Jiří Transitivity and partial order. (English summary) **98c:05006**
Korec, Ivan Definability of Pascal's triangles modulo 4 and 6 and some other binary operations from their associated equivalence relations. (English summary) **98h:05010**
Milošević, Radivoje R. (*with* Romano, Daniel Avraám; Vinčić, M.) A basic separation on a set with apartness. (English summary) **98f:03052**
Morales, Luis B. Diagonal polynomials and diagonal orders on multidimensional lattices. (English summary) **98h:06009**
Novák, Vítězslav (*with* Novotný, Miroslav) Relational structures and dependence spaces. **98d:08014**
Novotný, Miroslav *see* **Novák, Vítězslav**, **98d:08014**
Romano, Daniel Avraám On coideals of product of commutative rings with apartness. (English summary)
— *see also* **Milošević, Radivoje R.; et al.**, **98f:03052**
Sen, Arunava *see* **Dutta, Bhaskar**, **98a:90013**
Thomassé, Stéphan Indivisibility and alpha-morphisms. (English summary) **98c:04004**
Vinčić, M. *see* **Milošević, Radivoje R.; et al.**, **98f:03052**
van der Woude, Jaap *see* **Doornbos, Hendrik; et al.**, **98i:68187**

04A10 Ordinal and cardinal numbers; generalizations [see also 03E10]

Jones, James P. (*with* Levitz, Hilbert; Nichols, Warren D.) On series of ordinals and combinatorics. (English summary) **98a:04002**
Levitz, Hilbert *see* **Jones, James P.; et al.**, **98a:04002**
Marty, Roger H. Sequential G_δ-sets and measures. **98f:04002**
Nichols, Warren D. *see* **Jones, James P.; et al.**, **98a:04002**
Wu, Guo Hua[2] Nice orderings on the structure $Q_\kappa\lambda$. (Chinese. English and Chinese summaries) **98m:04001**

Items with secondary classifications in 04A10

Abe, Yoshihiro Saturation of fundamental ideals on $\mathscr{P}_\kappa\lambda$. **98c:03098**
Beyer, W. A. (*with* Louck, James D.) Transfinite function iteration and surreal numbers. (English summary) **98i:39005**
Ehrlich, Philip Universally extending arithmetic continua. **98j:03051**
Hajnal, András Paul Erdős' set theory. **98b:01031**
Kharazishvili, A. B. A note on the Sierpiński partition. (English summary) **98c:28002**
Louck, James D. *see* **Beyer, W. A.**, **98i:39005**
Martin, Ursula (*with* Scott, Elizabeth A.) The order types of termination orderings on monadic terms, strings and multisets. (English summary) **98k:68095**
Nambiar, K. K. Justification of the continuum hypothesis. (English summary) **98c:03106**
Scott, Elizabeth A. *see* **Martin, Ursula**, **98k:68095**
Shelah, Saharon The pcf theorem revisited. (English summary) **98b:03068**
— Colouring and non-productivity of $\aleph_2$-c.c. (English summary) **98a:03075**
Yamasaki, Yōhei The arithmetic of reversed positional games. (English summary) **98a:90165**

04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [see also 03E15, 26A21, 28A05, 54H05]

Judah, Haim (*with* Lior, Amiran; Recław, Ireneusz) Very small sets. **98a:04003**
Laczkovich, Miklós Analytic subgroups of the reals. (English summary) **98g:04001**
Lior, Amiran *see* **Judah, Haim; et al.**, **98a:04003**
Louveau, Alain (*with* Mokobodzki, Gabriel) On measures ergodic with respect to an analytic equivalence relation. (English summary) **98h:04002**

Mokobodzki, Gabriel *see* **Louveau, Alain**, **98h:04002**
Recław, Ireneusz *see* **Judah, Haim; et al.**, **98a:04003**
Zajíček, Luděk Products of non-σ-porous sets and Foran systems. **98b:04002**

Items with secondary classifications in 04A15

Andretta, Alessandro (*with* Marcone, Alberto) Ordinary differential equations and descriptive set theory: uniqueness and globality of solutions of Cauchy problems in one dimension. (English summary) **98g:34009**
Balcerzak, Marek Generalized projections of Borel and analytic sets. **98d:54067**
Becker, Howard (*with* Kechris, Alexander S.) ★ The descriptive set theory of Polish group actions. (English summary) **98d:54068**
Bossard, Benoît An ordinal version of some applications of the classical interpolation theorem. (English summary) **98d:46008**
Hejduk, Jacek Non-Baire unions in category bases. (English summary) **98a:28001**
Kanovei, Vladimir Two dichotomy theorems on colourability of non-analytic graphs. (English summary) **98m:03103**
Kechris, Alexander S. *see* **Becker, Howard**, **98d:54068**
Marcone, Alberto *see* **Andretta, Alessandro**, **98g:34009**
Matheron, Etienne The descriptive complexity of Helson sets. **98h:43003**
— Complexité de la famille des ensembles de synthèse d'un groupe abélien localement compact. (French summary) [Complexity of the family of sets of synthesis of a locally compact abelian group] **98a:43006**
Pawlikowski, Janusz Property C'', strong measure zero sets and subsets of the plane. (English summary) **98m:03104**
Solecki, S. (*with* Srivastava, S. M.) Automatic continuity of group operations. (English summary) **98j:22002**
Srivastava, S. M. *see* **Solecki, S.**, **98j:22002**
Uzcátegui A., Carlos E. The σ-ideal of closed smooth sets does not have the covering property. (English summary) **98d:54076**
Vervoort, Marco R. Blackwell games. (English summary) **98j:90100**
Xenikakis, Polychronis J. Measure and category versions of Erdős-Rado theorem. (English summary) **98i:28004**

04A20 Combinatorial set theory [see also 03E05, 05A05]; filters

Abe, Yoshihiro Strongly normal ideals on $\mathcal{P}_\kappa\lambda$ and the Sup-function. (English summary) **98h:04003**
Aharoni, Ron A few remarks on a conjecture of Erdős on the infinite version of Menger's theorem. (English summary) **98b:04003**
Ahlswede, Rudolf (*with* Cai, Ning) On extremal set partitions in Cartesian product spaces [MR 95c:04002]. (English summary) (*see* **98d:00027**)
Bibiloni, Lluis *see* **Paradis, Jaume; et al.**, **98b:04005**
Cai, Ning *see* **Ahlswede, Rudolf**, (**98d:00027**)
Dimitrić, Radoslav M. A note on Kurepa's hypotheses in algebra. (English summary) **98c:04003**
Ganguly, D. K. (*with* Majumdar, Madhabendu) On some properties of the Cantor set. **98i:04001**
García-Ferreira, Salvador (*with* Laflamme, Claude) The γ_p property and the reals. (English summary) **98g:04002**
Kowalsky, Hans-Joachim Abzählbar-primitive Ultrafilter. III. [Countably primitive ultrafilters. III] **98b:04004**
Laflamme, Claude *see* **García-Ferreira, Salvador**, **98g:04002**
Majumdar, Madhabendu *see* **Ganguly, D. K.**, **98i:04001**
Paradis, Jaume (*with* Bibiloni, Lluis; Viader, Pelegrí) On actually computable bijections between $\mathbf{N}$ and $\mathbf{Q}^+$. (English summary) **98b:04005**
Scheepers, Marion Rothberger's property and partition relations. **98g:04003**
Thomassé, Stéphan Indivisibility and alpha-morphisms. (English summary) **98c:04004**
Viader, Pelegrí *see* **Paradis, Jaume; et al.**, **98b:04005**

Items with secondary classifications in 04A20

Abe, Yoshihiro Saturation of fundamental ideals on $\mathcal{P}_\kappa\lambda$. **98c:03098**
— A hierarchy of filters smaller than $\mathrm{CF}_{\kappa\lambda}$. (English summary) **98m:03098**
Becker, Howard (*with* Kechris, Alexander S.) ★ The descriptive set theory of Polish group actions. (English summary) **98d:54068**
Burke, Douglas (*with* Matsubara, Yo) Ideals and combinatorial principles. **98e:03029**
Cichoń, Jacek (*with* Kraszewski, Jan) On some new ideals on the Cantor and Baire spaces. (English summary) **98j:54052**
Dow, Alan (*with* Monk, J. Donald) Depth, π-character, and tightness in superatomic Boolean algebras. (English summary) **98a:54002**
Farah, Ilijas OCA and towers in $\mathcal{P}(\mathbf{N})$/fin. (English summary) **98f:03043**
— Embedding partially ordered sets into ω_ω. (English summary) **98i:03069**
Hajnal, András Paul Erdős' set theory. **98b:01031**
Halbeisen, Lorenz On shattering, splitting and reaping partitions. (English summary) **98k:03102**
Helmer, D. A general diagonal process and compactness in spaces of measurable functions. (English summary) **98b:46034**
Humke, Paul D. (*with* Laczkovich, Miklós) A visit to the Erdős problem. (English summary) **98e:28003**
Just, Winfried (*with* Miller, Arnold W.; Scheepers, Marion; Szeptycki, Paul J.) The combinatorics of open covers. II. (English summary) **98g:03115a**
— (*with* Tanner, Andreas) Splitting ω-covers. (English summary) **98e:54004**
Kechris, Alexander S. *see* **Becker, Howard**, **98d:54068**
Kierstead, H. A. (*with* Milner, Eric Charles) The dimension of the finite subsets of κ. (English summary) **98a:06003**
Kostochka, A. V. A bound of the cardinality of families not containing Δ-systems. (English summary) **98d:05145**
Kraszewski, Jan *see* **Cichoń, Jacek**, **98j:54052**
Laczkovich, Miklós *see* **Humke, Paul D.**, **98e:28003**
Liu, Kecheng (*with* Shelah, Saharon) Cofinalities of elementary substructures of structures on $\aleph_\omega$. (English summary) **98m:03100**
Llopis, Jimena (*with* Todorčević, Stevo) Borel partitions of products of finite sets. (English summary) **98i:03064**
Martin, Ursula (*with* Scott, Elizabeth A.) The order types of termination orderings on monadic terms, strings and multisets. (English summary) **98k:68095**
Matoušek, Jiří On Lipschitz mappings onto a square. (English summary) **98g:28009**
Matsubara, Yo *see* **Burke, Douglas**, **98e:03029**
Miller, Arnold W. *see* **Just, Winfried; et al.**, **98g:03115a**
Milner, Eric Charles *see* **Kierstead, H. A.**, **98a:06003**
Monk, J. Donald *see* **Dow, Alan**, **98a:54002**
Pouzet, Maurice (*with* Sauer, Norbert) Edge partitions of the Rado graph. (English summary) **98c:05115**
Recław, Ireneusz On cardinal invariants for CCC σ-ideals. (English summary) **98f:28003**
Rutkowski, Aleksander Which countable ordered sets have a dense linear extension? (English summary) **98g:06005**
Satô, Kenzi A Hausdorff decomposition on a countable subset of $\mathbf{S}^2$ without the axiom of choice. (English summary) **98a:54006**
Sauer, Norbert *see* **Pouzet, Maurice**, **98c:05115**
Scheepers, Marion Combinatorics of open covers. III. Games, $\mathrm{C}_p(X)$. (English summary) **98g:03115b**
— *see also* **Just, Winfried; et al.**, **98g:03115a**
Scott, Elizabeth A. *see* **Martin, Ursula**, **98k:68095**
Shelah, Saharon A finite partition theorem with double exponential bound. (English summary) **98d:05148**
— Colouring and non-productivity of $\aleph_2$-c.c. (English summary) **98a:03075**
— *see also* **Liu, Kecheng**, **98m:03100**
Szeptycki, Paul J. *see* **Just, Winfried; et al.**, **98g:03115a**
Tanner, Andreas *see* **Just, Winfried**, **98e:54004**
Todorčević, Stevo *see* **Llopis, Jimena**, **98i:03064**
Watson, W. Stephen Families of separated sets. (English summary) **98a:54019**

04A25 Axiom of choice and equivalent propositions (Zorn's lemma, etc.) [see also 03E25]

Items with secondary classifications in 04A25

Abian, Alexander (*with* Eslami, Esfandiar) Compactness of the product of two compact spaces without the axiom of choice. (English summary) **98k:54040**
De La Cruz, Omar (*with* Di Prisco, Carlos Augusto) Weak choice principles. **98e:03030**
Di Prisco, Carlos Augusto *see* **De La Cruz, Omar**, **98e:03030**
Eslami, Esfandiar *see* **Abian, Alexander**, **98k:54040**
Herrlich, Horst The Ascoli theorem is equivalent to the Boolean prime ideal theorem. **98k:54004**
Howard, Paul (*with* Rubin, Arthur L.; Rubin, Jean E.) Kinna-Wagner selection principles, axioms of choice and multiple choice. (English summary) **98i:03067**
Rubin, Arthur L. *see* **Howard, Paul; et al.**, **98i:03067**
Rubin, Jean E. *see* **Howard, Paul; et al.**, **98i:03067**
Turinici, Mihai Fixed point results on abstract ordered sets. (English summary) **98b:06003**

04A30 Continuum hypothesis, generalized continuum hypothesis [see also 03E50, 54A25]

Items with secondary classifications in 04A30

Bican, Ladislav A characterization of B_2-groups. **98h:20096**
Dindoš, Martin Limits of transfinite convergent sequences of derivatives. (English summary) **98b:03071**
Dow, Alan (*with* Hart, Klaas Pieter) A new subcontinuum of $\beta\mathbf{R} \setminus \mathbf{R}$. (English summary) **98b:54033**
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05–XX Combinatorics {For finite fields, see 11Txx.}

Erdős, Paul[1] Some old and new problems in various branches of combinatorics. **98g:05001**

05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Chia, G. L. A bibliography on chromatic polynomials. (*see* **98d:05001**)

Items with secondary classifications in 05–00

Li, Nian Zu The list of chromatically unique graphs of order seven and eight. (*see* **98d:05001**)

05–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bodendiek, Rainer (*with* Lang, Rainer) ★ Lehrbuch der Graphentheorie. Band 1. (German) [Textbook of graph theory. Vol. 1] **98g:05002a**
— (*with* Lang, Rainer) ★ Lehrbuch der Graphentheorie. Band 2. (German) [Textbook of graph theory. Vol. 2] **98g:05002b**
Kapur, J. N. ★ Counting without counting. (English summary)
Kaye, Richard William (*with* Wilson, Robert A.) ★ Linear algebra. (English summary)
Kung, Joseph P. S. Combinatorics and nonparametric mathematics.
Lang, Rainer *see* **Bodendiek, Rainer**, **98g:05002a** *and* **98g:05002b**
Wilson, Robert A. *see* **Kaye, Richard William**
Xu, Jun Ming ★ Tu lun ji qi yingyong. (Chinese. Chinese summary) [Graph theory and its applications]

Items with secondary classifications in 05–01

Chetwynd, Amanda G. (*with* Diggle, Peter J.) ★ Discrete mathematics. (English summary) **98f:00002**
Diggle, Peter J. *see* **Chetwynd, Amanda G.**, **98f:00002**
Engel, Arthur ★ Problem-solving strategies. (English summary) **98m:00004**
Servatius, Brigitte Graphs, digraphs, and the rigidity of grids. (English summary) **98c:15002**

05–02 Research exposition (monographs, survey articles)

(Berge, Claude) *see* **Scheinerman, Edward R.**, **98m:05001**
(Désarménien, Jacques) *see* **Festschrift: Foata, Dominique C.**, **98g:05003**
(Foata, Dominique C.) *see* **Festschrift: Foata, Dominique C.**, **98g:05003**
(Kerber, Adalbert) *see* **Festschrift: Foata, Dominique C.**, **98g:05003**
(Rota, Gian-Carlo) *see* **Stanley, Richard P.**, **98a:05001**
Scheinerman, Edward R. (*with* Ullman, Daniel H.) ★ Fractional graph theory. (English summary) **98m:05001**
Stanley, Richard P. ★ Combinatorics and commutative algebra. (English summary) **98h:05001**
— ★ Enumerative combinatorics. Vol. 1. (English summary) **98a:05001**
(Strehl, Volker) *see* **Festschrift: Foata, Dominique C.**, **98g:05003**
Ullman, Daniel H. *see* **Scheinerman, Edward R.**, **98m:05001**
Zhang, Cun Quan ★ Integer flows and cycle covers of graphs. (English summary) **98a:05002**

Items listed otherwise than by author

Festschrift:
Foata, Dominique C. ★ The Foata Festschrift. **98g:05003**

Items with secondary classifications in 05–02

Engel, Konrad ★ Sperner theory. (English summary) **98m:05187**
Erdős, Paul[1] Some unsolved problems. (*see* **98d:00027**)
O'Donnell, Christopher J. *see* **Spiegel, Eugene**, **98g:06001**
Sachkov, Vladimir N. ★ Probabilistic methods in combinatorial analysis. (English summary) **98g:60022**
Spiegel, Eugene (*with* O'Donnell, Christopher J.) ★ Incidence algebras. (English summary) **98g:06001**
Zieschang, Paul-Hermann ★ An algebraic approach to association schemes. **98h:05185**

Items listed otherwise than by author

Problems:
Combinatorics, geometry and probability *see* **Erdős, Paul[1]**, (**98d:00027**)

05–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 05–03

Bollobás, Béla Paul Erdős—life and work. **98b:01028**
(Erdős, Paul[1]) *see* **Bollobás, Béla**, **98b:01028**
Klein, D. J. Graph geometry, graph metrics, & Wiener. (English summary) **98e:05103**
Lallement, Gérard J. (*with* Perrin, Dominique) Marcel-Paul Schützenberger (1920–1996). **98h:01028**
Luo, Jianjin Several counting results in the 18th–19th centuries in Chinese mathematics. (English summary) (*see* **98e:05001**)
McKee, Terry A. 2-trees in geodesy, 1850–1950. (English summary) **98d:05041**
Perrin, Dominique *see* **Lallement, Gérard J.**, **98h:01028**
(Schützenberger, Marcel-Paul) *see* **Lallement, Gérard J.**, **98h:01028**
Sesiano, Jacques ★ Un traité médiéval sur les carrés magiques. (French. French summary) [A medieval treatise on magic squares] **98e:01007**
Stanley, Richard P. Hipparchus, Plutarch, Schröder, and Hough. **98g:05008**

05–06 Proceedings, conferences, collections, etc.

(Acharya, B. Devadas) *see* **Graph theory and its applications**, **98f:05001**
(Arumugam, S.) *see* **Graph theory and its applications**, **98f:05001**
(Bailey, R. A.) *see* **Surveys in combinatorics**, **98e:05002**
(Beineke, Lowell W.) *see* **Graph theory in computer science, chemistry, and other fields**, **98f:05002**
(Chen, Chuan Chong) *see* **Chromatic polynomials and related topics**, **98d:05001**
(Chia, G. L.) *see* **Chromatic polynomials and related topics**, **98d:05001**
(Faigle, Ulrich) *see* **Workshop: Graphs and Combinatorial Optimization**, **98e:05003**
(Hahn, Geňa) *see* **Graph symmetry**, **98d:05002**
(Harary, Frank) *see* **Graph theory in computer science, chemistry, and other fields**, **98f:05002**
(Hoede, Kees) *see* **Workshop: Graphs and Combinatorial Optimization**, **98e:05003**
(Koh, K. M.) *see* **Chromatic polynomials and related topics**, **98d:05001**
(Ku, Tung-Hsin) *see* **Combinatorics and graph theory '95**, **98e:05001**
(Leclerc, Bernard) *see* **Proceedings: Conference on Formal Power Series and Algebraic Combinatorics**, **98h:05008**
(Li, Nian Zu) *see* **Chromatic polynomials and related topics**, **98d:05001**
(Marušič, Dragan) *see* **Graph theory**, **98i:05001**
(McKee, Terry A.) *see* **Graph theory in computer science, chemistry, and other fields**, **98f:05002**
(Mohar, Bojan) *see* **Graph theory**, **98i:05001**
(Sabidussi, Gert) *see* **Graph symmetry**, **98d:05002**
(Sampathkumar, E.) *see* **Graph theory and its applications**, **98f:05001**
(Teo, Kee-Leong) *see* **Chromatic polynomials and related topics**, **98d:05001**
(Thibon, Jean-Yves) *see* **Proceedings: Conference on Formal Power Series and Algebraic Combinatorics**, **98h:05008**

Items listed otherwise than by author

Birthday:
Harary, Frank ★ Graph theory in computer science, chemistry, and other fields. **98f:05002**
Boca Raton, FL ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05002**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05003**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05004**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05005**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05006**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05007**
Chromatic polynomials and related topics ★ Chromatic polynomials and related topics. **98d:05001**
Combinatorics and graph theory '95 ★ Combinatorics and graph theory '95. Vol. 1. **98e:05001**
Conference:
Chromatic Polynomials and Related Topics ★ Chromatic polynomials and related topics. **98d:05001**
Combinatorial ★ Surveys in combinatorics, 1997. **98e:05002**
Combinatorics ★ Combinatorics and graph theory '95. Vol. 1. **98e:05001**
Combinatorics, Graph Theory and Computing ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05002**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05003**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05004**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05005**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05006**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05007**
Formal Power Series and Algebraic Combinatorics ★ Proceedings of the 7th Conference on Formal Power Series and Algebraic Combinatorics. **98h:05008**
Graph Theory ★ Graph theory. **98i:05001**
Enschede ★ 4th Twente Workshop on Graphs and Combinatorial Optimization. **98e:05003**
Graph symmetry ★ Graph symmetry. **98d:05002**
Graph theory ★ Graph theory. **98i:05001**
Graph theory and its applications ★ Graph theory and its applications. **98f:05001**
Graph theory in computer science, chemistry, and other fields ★ Graph theory in computer science, chemistry, and other fields. **98f:05002**
Hefei ★ Combinatorics and graph theory '95. Vol. 1. **98e:05001**
Lake Bled ★ Graph theory. **98i:05001**
Las Cruces, NM ★ Graph theory in computer science, chemistry, and other fields. **98f:05002**
London ★ Surveys in combinatorics, 1997. **98e:05002**
Montreal, PQ ★ Graph symmetry. **98d:05002**
NATO Advanced Study Institute:
Graph Symmetry: Algebraic Methods and Applications ★ Graph symmetry. **98d:05002**
Noisy-le-Grand ★ Proceedings of the 7th Conference on Formal Power Series and Algebraic Combinatorics. **98h:05008**
Proceedings:
Conference on Combinatorics, Graph Theory and Computing ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05002**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05003**

Proceedings: (*cont'd.*)
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05004**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05005**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05006**
— ★ Proceedings of the Twenty-eighth Southeastern International Conference on Combinatorics, Graph Theory and Computing. **98h:05007**
Conference on Formal Power Series and Algebraic Combinatorics ★ Proceedings of the 7th Conference on Formal Power Series and Algebraic Combinatorics. **98h:05008**
School:
Combinatorics ★ Combinatorics and graph theory '95. Vol. 1. **98e:05001**
Seminar:
Graph Symmetry ★ Graph symmetry. **98d:05002**
Shanghai ★ Chromatic polynomials and related topics. **98d:05001**
Surveys in combinatorics ★ Surveys in combinatorics, 1997. **98e:05002**
Symposium:
Graph-theoretic Models in Computer Science, Chemistry, and Other Fields ★ Graph theory in computer science, chemistry, and other fields. **98f:05002**
Tirunelveli ★ Graph theory and its applications. **98f:05901**
Workshop:
Graph Theory and its Applications ★ Graph theory and its applications. **98f:05001**
Graphs and Combinatorial Optimization ★ 4th Twente Workshop on Graphs and Combinatorial Optimization. **98e:05003**

Items with secondary classifications in 05–06

(d'Amore, Fabrizio) *see* **Graph-theoretic concepts in computer science, 98e:68005**
(Bousquet-Mélou, Mireille) *see* **Combinatorics and physics, 98h:00025**
(Chung, Fan R. K.) *see* **Festschrift: Wilf, Herbert S., 98b:00038**
(Désarménien, Jacques) *see* **Festschrift: Foata, Dominique C., 98g:05003**
(Du, Ding Zhu) *see* **Computing and combinatorics, 98c:68009** *and* **Network design: connectivity and facilities location, 98k:68011**
(Foata, Dominique C.) *see* **Festschrift: Foata, Dominique C., 98g:05003**
(Franciosa, Paolo Giulio) *see* **Graph-theoretic concepts in computer science, 98e:68005**
(Gutman, Ivan M.) *see* **Fifty years of the Wiener index, 98b:92001**
(Itzykson, Claude) *see* **Combinatorics and physics, 98h:00025**
(Kerber, Adalbert) *see* **Festschrift: Foata, Dominique C., 98g:05003**
(Klavžar, Sandi) *see* **Fifty years of the Wiener index, 98b:92001**
(Li, Ming[1]) *see* **Computing and combinatorics, 98c:68009**
(Loeb, Daniel E.) *see* **Combinatorics and physics, 98h:00025**
(Marchetti-Spaccamela, Alberto) *see* **Graph-theoretic concepts in computer science, 98e:68005**
(McMorris, F. R.) *see* **Mathematical hierarchies and biology, 98h:92004**
(Mirkin, Boris G.) *see* **Mathematical hierarchies and biology, 98h:92004**
(Mohar, Bojan) *see* **Fifty years of the Wiener index, 98b:92001**
(Olshanskiĭ, Grigoriĭ) *see* **Kirillov's seminar on representation theory, 98m:17005**
(Pardalos, Panos M.) *see* **Network design: connectivity and facilities location, 98k:68011**
(Roberts, Fred S.) *see* **Mathematical hierarchies and biology, 98h:92004**
(Rzhetsky, Andrey) *see* **Mathematical hierarchies and biology, 98h:92004**
(Sokolov, N. A.) *see* **Combinatorial models and methods, 98a:90005**
(Strehl, Volker) *see* **Festschrift: Foata, Dominique C., 98g:05003**
(Takefuji, Yoshiyasu) *see* **Neural computing for optimization and combinatorics, 98d:68179**
(Wang, Jun[3]) *see* **Neural computing for optimization and combinatorics, 98d:68179**
(Wiener, Harold) *see* **Fifty years of the Wiener index, 98b:92001**
(Wilf, Herbert S.) *see* **Festschrift: Wilf, Herbert S., 98b:00038**

Items listed otherwise than by author

Algebraic combinatorics ★ Daisūteki kumiawase ron. [Algebraic combinatorics] **98e:00013**
American Mathematical Society Translations, Series 2 ★ Kirillov's seminar on representation theory. **98m:17005**
Atlanta, GA ★ Proceedings of the Seventh International Conference on Random Structures and Algorithms. **98i:00026**
Cadenabbia ★ Graph-theoretic concepts in computer science. **98e:68005**
Combinatorial models and methods ★ Комбинаторные модели и методы. (Russian) [Combinatorial models and methods] **98a:90005**
Combinatorics and physics ★ Combinatorics and physics. **98h:00025**
Computing and combinatorics ★ Computing and combinatorics. **98c:68009**
Conference:
Algebraic Combinatorics ★ Daisūteki kumiawase ron. [Algebraic combinatorics] **98e:00013**
Combinatorics and Graph Theory ★ The Wilf Festschrift. **98b:00038**
Computing and Combinatorics ★ Computing and combinatorics. **98c:68009**
Physics and Combinatorics ★ Combinatorics and physics. **98h:00025**
Random Structures and Algorithms ★ Proceedings of the Seventh International Conference on Random Structures and Algorithms. **98i:00026**
Festschrift:
Foata, Dominique C. ★ The Foata Festschrift. **98g:05003**
Wilf, Herbert S. ★ The Wilf Festschrift. **98b:00038**
Fifty years of the Wiener index ★ Fifty years of the Wiener index. **98b:92001**
Graph-theoretic concepts in computer science ★ Graph-theoretic concepts in computer science. **98e:68005**
Kirillov's seminar on representation theory ★ Kirillov's seminar on representation theory. **98m:17005**
Lecture Notes in Computer Science ★ Graph-theoretic concepts in computer science. **98e:68005**
Marseilles ★ Combinatorics and physics. **98h:00025**
Mathematical hierarchies and biology ★ Mathematical hierarchies and biology. **98h:92004**
Memorial Issue:
Itzykson, Claude ★ Combinatorics and physics. **98h:00025**
Network design: connectivity and facilities location ★ Network design: connectivity and facilities location. **98k:68011**
Neural computing for optimization and combinatorics ★ Neural computing for optimization and combinatorics. **98d:68179**
Philadelphia, PA ★ The Wilf Festschrift. **98b:00038**
Piscataway, NJ ★ Mathematical hierarchies and biology. **98h:92004**
Princeton, NJ ★ Network design: connectivity and facilities location. **98k:68011**
Proceedings:
Conference on Random Structures and Algorithms ★ Proceedings of the Seventh International Conference on Random Structures and Algorithms. **98i:00026**
Special Year:
Networks ★ Network design: connectivity and facilities location. **98k:68011**
Workshop:
Graph-theoretic Concepts in Computer Science ★ Graph-theoretic concepts in computer science. **98e:68005**
Mathematical Hierarchies and Biology ★ Mathematical hierarchies and biology. **98h:92004**
Network Design: Connectivity and Facilities Location ★ Network design: connectivity and facilities location. **98k:68011**
Xi'an ★ Computing and combinatorics. **98c:68009**

05Axx Classical combinatorial problems

05A05 Combinatorial choice problems (subsets, representatives, permutations)

Abrham, Jaromir (*with* Turgeon, Jean M.) Additive sequences of permutations with repeated elements. **98a:05003**
Atkinson, M. D. Permutations which are the union of an increasing and a decreasing subsequence. (English summary) **98k:05001**
Barraud, Jacques *see* **Kreweras, Germain, 98k:05004**
Bednarchak, Debe (*with* Helm, Martin) A note on the Beck-Fiala theorem. (English summary) **98d:05003**
Beissinger, Janet S. (*with* Peled, Uri N.) A note on major sequences and external activity in trees. (English summary) **98d:05004**
Bóna, Miklós Permutations avoiding certain patterns: the case of length 4 and some generalizations. (English summary) **98k:05002**
— Permutations with one or two 132-subsequences. (English summary) **98h:05009**
Ciach, Leszek Jan On the placing of balls in cells. (English summary)
Clarke, Robert John[1] Han's conjecture on permutations. **98d:05005**
Clements, G. F. On representing faces of a cube by subfaces. (English summary) **98g:05004**
Critani, F. (*with* Dall'Aglio, M.; Di Biase, Giuseppe) Ranking and unranking permutations with applications. (*see* **98g:00025**)
Dall'Aglio, M. *see* **Critani, F.; et al., (98g:00025)**
Di Biase, Giuseppe *see* **Critani, F.; et al., (98g:00025)**
El-Zahar, Mohamed H. A graph-theoretic version of the union-closed sets conjecture. (English summary) **98i:05002**
Foata, Dominique C. (*with* Han, Guo-Niu) Calcul basique des permutations signées. I. Longueur et nombre d'inversions. (English and French summaries) [Basic calculus of signed permutations. I. Length and number of inversions] **98c:05001a**
— (*with* Han, Guo-Niu) Calcul basique des permutations signées. II. Analogues finis des fonctions de Bessel. (English and French summaries) [Basic calculus of signed permutations. II. Finite analogues of Bessel functions] **98c:05001b**
Fon-Der-Flaass, D. G. Arrays of distinct representatives—a very simple NP-complete problem. (English summary) **98a:05004**
Foundas, E. (*with* Georgiacodis, M.) On the construction of Eulerian permutations. (English summary) **98a:05005**
Gaal, Peter *see* **Golomb, Solomon W., 98k:05003**
Georgiacodis, M. *see* **Foundas, E., 98a:05005**
Golomb, Solomon W. (*with* Gaal, Peter) On the number of permutations of n objects with greatest cycle length k. **98k:05003**
Griggs, Jerrold R. Concentrating subset sums at k points. (English summary) **98a:05006**
Han, Guo-Niu *see* **Foata, Dominique C., 98c:05001a** *and* **98c:05001b**
Helm, Martin *see* **Bednarchak, Debe, 98d:05003**
Klavžar, Sandi Hall's marriage theorem and its applications. (Slovenian. English and Slovenian summaries)
Kreweras, Germain (*with* Barraud, Jacques) Anagrammes alternés. (English summary) [Alternating anagrams] **98k:05004**
Majumdar, A. A. K. (*with* Ray, G. C.) Stability in the marriage problem. (English and Bengali summaries) **98e:05004**
Nagata, Masayoshi Certain problems on the difference between n individual numbers from 2 groups. (Japanese)
Odlyzko, Andrew (*with* Shearer, J. B.; Siders, R.) Monotonic subsequences in dimensions higher than one. (English summary) **98c:05002**
Panayotopoulos, A. Generating planar permutations. (English summary)
Papi, Paolo Affine permutations and inversion multigraphs. (English summary) **98k:05005**
Peled, Uri N. *see* **Beissinger, Janet S., 98d:05004**
Ray, G. C. *see* **Majumdar, A. A. K., 98e:05004**
Roelants van Baronaigien, Dominique CAT generation of subsets with a given parity subsequence. (English summary) **98j:05001**
Sabin, R. E. A simple algorithm for generating subsets of k or fewer elements of an n-set. (English summary) **98e:05005**
Santmyer, Joseph M. A Stirling like sequence of rational numbers. (English summary) **98a:05007**
Shearer, J. B. *see* **Odlyzko, Andrew; et al., 98c:05002**
Siders, R. *see* **Odlyzko, Andrew; et al., 98c:05002**
Turgeon, Jean M. *see* **Abrham, Jaromir, 98a:05003**

Vũ, Văn H. Extremal systems with upper-bounded odd intersections. (English summary) **98e:05006**

Items with secondary classifications in 05A05

Alesker, S. A remark on the Szarek-Talagrand theorem. (English summary) **98g:52006**
Anstee, Richard (*with* Griggs, Jerrold R.; Sali, Attila) Small forbidden configurations. (English summary) **98i:05035**
Boneh, Arnon (*with* Hofri, Micha) The coupon-collector problem revisited—a survey of engineering problems and computational methods. (English summary) **98a:60009**
Cazals, Frédéric Combinatorial properties of one-dimensional arrangements. (English summary) **98i:52009**
Charalambides, Ch. A. A unified derivation of occupancy and sequential occupancy distributions. (English summary) **98b:60016**
Dawson, C. Bryan A better draft: fair division of the talent pool. **98a:90012**
Dulucq, S. (*with* Gire, S.; West, Julian) Permutations with forbidden subsequences and nonseparable planar maps. (English summary) **98a:05081**
Edwards, Christopher T. Double-elimination tournaments: counting and calculating. (English summary)
Erdős, Péter L. (*with* Seress, Ákos; Székely, László A.) On intersecting chains in Boolean algebras [MR 96a:05140]. (English summary) (*see* **98d:00027**)
Fishburn, Peter C. Acyclic sets of linear orders. (English summary) **98m:90011**
Gire, S. *see* **Dulucq, S.; et al., 98a:05081**
Goulden, I. P. (*with* West, Julian) Raney paths and a combinatorial relationship between rooted nonseparable planar maps and two-stack-sortable permutations. (English summary) **98a:05082**
Griggs, Jerrold R. *see* **Anstee, Richard; et al., 98i:05035**
Hilton, A. J. W. (*with* Johnson, P. D., Jr.; Wantland, E. B.) The Hall number of a simple graph. (English summary) **98g:05060**
Hofri, Micha *see* **Boneh, Arnon, 98a:60009**
Janson, Svante (*with* Szpankowski, Wojciech) Analysis of an asymmetric leader election algorithm. (English summary) **98d:90039**
Johnson, P. D., Jr. *see* **Hilton, A. J. W.; et al., 98g:05060**
Kim, Dongsu On combinatorics of Al-Salam Carlitz polynomials. (English summary) **98b:33036**
Kreweras, Germain An additive generation for the Genocchi numbers and two of its enumerative meanings. **98d:05010**
Macula, Anthony J. A non-adaptive search algorithm that identifies up to three defects. (English summary) **98m:62213**
Manstavičius, Eugenijus Additive and multiplicative functions on random permutations. (Russian. Lithuanian summary) **98k:11113**
Morales, Luis B. Scheduling a bridge club by tabu search.
Pavlov, A. I. On the Erdős-Turan theorem on the logarithm of an order for a random permutation. (Russian) **98d:11098**
Ramanan, Gurumurthi V. Proof of a conjecture of Frankl and Füredi. (English summary) **98f:05145**
Reischer, Corina (*with* Simovici, Dan A.; Stojmenović, Ivan; Tošić, Ratko) A characterization of Boolean collections of set-valued functions. (English summary) **98h:06030**
Sali, Attila *see* **Anstee, Richard; et al., 98i:05035**
Seress, Ákos *see* **Erdős, Péter L.; et al., (98d:00027)**
Simovici, Dan A. *see* **Reischer, Corina; et al., 98h:06030**
Simpson, R. Jamie Scheduling a bridge club using a genetic algorithm.
Stojmenović, Ivan *see* **Reischer, Corina; et al., 98h:06030**
Székely, László A. *see* **Erdős, Péter L.; et al., (98d:00027)**
Szpankowski, Wojciech *see* **Janson, Svante, 98d:90039**
Tošić, Ratko *see* **Reischer, Corina; et al., 98h:06030**
Wantland, E. B. *see* **Hilton, A. J. W.; et al., 98g:05060**
West, Julian *see* **Dulucq, S.; et al., 98a:05081** *and* **Goulden, I. P., 98a:05082**
Wilf, Herbert S. On crossing numbers, and some unsolved problems. (English summary) **98i:05062**
Zeilberger, Doron A comparison of two methods for random labelling of balls by vectors of integers. (English summary) (*see* **98a:60001**)

05A10 Factorials, binomial coefficients, combinatorial functions [see also 11B65, 33Cxx]

Bhargava, Manjul Congruence preservation and polynomial functions from Z_n to Z_m. (English summary) **98m:05002**
Caro, Yair Binomial coefficients and zero-sum Ramsey numbers. (English summary) **98g:05005**
Cerone, P. (*with* Sofo, A.; Watson, Donald) Stirling related polynomials. (English summary) **98d:05006**
Chen, Zhibo On polynomial functions from $Z_{n_1} \times Z_{n_2} \times \cdots \times Z_{n_r}$ to Z_m. (English summary) **98g:05006**
Clark, Lane H. Asymptotic normality of the generalized Eulerian numbers. (English summary) **98m:05003**
Friedberg, Stephen H. Applications of the binomial theorem. (English summary)
Gao, Yuling (*with* Sun, Fengpo) Formulae for the general terms of the generalized Yang Hui's triangle.
Granville, Andrew Correction to: "Zaphod Beeblebrox's brain and the fifty-ninth row of Pascal's triangle" [Amer. Math. Monthly **99** (1992), no. 4, 318–331; MR 93a:05008]. **98i:05003**
Grimaldi, Ralph P. (*with* Moser, Joseph G.) The Catalan numbers and a tennis ball problem. (*see* **98h:05004**)
Gulliver, T. Aaron *see* **Maltais, P.**
Hou, Xin Chang Simple calculations for two classes of numerical sequences. (Chinese. English and Chinese summaries)
Joarder, Anwarul H. (*with* Mahmood, Munir) An inductive derivation of Stirling numbers of the second kind and their applications in statistics. (English summary)
Korec, Ivan Definability of Pascal's triangles modulo 4 and 6 and some other binary operations from their associated equivalence relations. (English summary) **98h:05010**
Li, Chen Wen On some modular properties for Stirling numbers of the second kind. (English summary) (*see* **98e:05001**)
Lupaş, Alexandru On the sequence $\prod_{k=0}^{n} \binom{n}{k}$.
Madsen Barbosa, Ruy Progressive paths and multinomials in r-dimensional lattice as a technique for generalizing binomial identities. (Portuguese. English and Portuguese summaries) **98g:05007**
Mahmood, Munir *see* **Joarder, Anwarul H.**
Maltais, P. (*with* Gulliver, T. Aaron) Pascal matrices and Stirling numbers. (English summary)
Moser, Joseph G. *see* **Grimaldi, Ralph P., (98h:05004)**
Munarini, Emanuele A combinatorial interpretation of the generalized Fibonacci numbers. (English summary) **98k:05006**
Peng, Qiu Shi An improved upper bound for the parameter θ in Stirling's formula. (Chinese. English and Chinese summaries)
Schimming, Rainer A partition of the Catalan numbers and enumeration of genealogical trees. (English summary) **98h:05011**
Shaji, Krishnan Generation of Bernoulli numbers.
Singh, V. N. A binomial expansion for non-commutative summands. (English summary)
Sofo, A. *see* **Cerone, P.; et al., 98d:05006**
Stanley, Richard P. Hipparchus, Plutarch, Schröder, and Hough. **98g:05008**
Sun, Fengpo *see* **Gao, Yuling**
Sun, Zhi-Hong Congruences for Bernoulli numbers and Bernoulli polynomials. (English summary) **98b:05001**
Ueno, Kazuo Another look at the generalized ballot problem. (English summary)
Wagner, Carl G. Combinatorial proofs of formulas for power sums. (English summary) **98a:05008**
Wang, Er Gang (*with* Wang, Ze Ke) A new identity for binomial coefficients. (Chinese. English summary)
Wang, Ze Ke *see* **Wang, Er Gang**
Watson, Donald *see* **Cerone, P.; et al., 98d:05006**
Wyss, Roland Identitäten bei den Stirling-Zahlen 2. Art aus kombinatorischen Überlegungen beim Würfelspiel. (German summary) [Identities for Stirling numbers of the second kind from combinatorial considerations in a game of dice] **98d:05007**

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Ahlgren, Scott (*with* Ekhad, Shalosh B.; Ono, Ken; Zeilberger, Doron) A binomial coefficient identity associated to a conjecture of Beukers. (English summary)
Allouche, Jean-Paul (*with* Berthé, Valérie) Triangle de Pascal, complexité et automates. [Pascal's triangle, complexity and automata] **98a:11030**
Bacher, Roland (*with* de la Harpe, Pierre; Venkov, Boris B.) Séries de croissance et séries d'Ehrhart associées aux réseaux de racines. (English and French summaries) [Growth series and Ehrhart series for root lattices] **98k:52029**
Balakrishnan, Narayanaswamy (*with* Nevzorov, V. B.) Stirling numbers and records. (English summary) **98h:60070**
Berthé, Valérie *see* **Allouche, Jean-Paul, 98a:11030**
Bressoud, D. M. On the proof of Andrews' q-Dyson conjecture. **98d:33006**
Chu, Wen Chang Many identities from one. (English summary) **98f:05015**
Cofman, Judita Catalan numbers for the classroom? (German summary) **98g:11021**
Dumont, Dominique Grammaires de William Chen et dérivations dans les arbres et arborescences. [Grammars of William Chen and derivations in trees and arborescences] **98j:05005**
Ekhad, Shalosh B. *see* **Ahlgren, Scott; et al.**
Filipponi, Piero Combinatorial expressions for Lucas numbers.
Fulmek, Markus On pairs of lattice paths with a given number of intersections. **98c:05005**
Haggard, P. W. Discovering relationships and patterns by exploring pentagonal and generalized pentagonal numbers. (English summary) **98j:11012**
de la Harpe, Pierre *see* **Bacher, Roland; et al., 98k:52029**
Holte, John M. Carries, combinatorics, and an amazing matrix. **98g:15034**
Hsu, Leetsch Charles (*with* Yu, Hong Quan) A unified approach to a class of Stirling-type pairs. (English summary) **98e:11024**
— (*with* Mullen, Gary L.; Shiue, Peter Jau-Shyong) Dickson-Stirling numbers. (English summary) **98i:11011**
Janardan, K. G. Bernoulli learning models: Uppuluri numbers. (English summary) (*see* **98a:60001**)
Konvalina, John (*with* Liu, Yi-Hsin) Arithmetic progression sums of binomial coefficients. (English summary) **98c:11015**
Krattenthaler, Christian (*with* Zeilberger, Doron) Proof of a determinant evaluation conjectured by Bombieri, Hunt and van der Poorten. (English summary) **98m:11015**
Kreweras, Germain An additive generation for the Genocchi numbers and two of its enumerative meanings. **98d:05010**
Liu, Yi-Hsin *see* **Konvalina, John, 98c:11015**
Luo, Jianjin Several counting results in the 18th–19th centuries in Chinese mathematics. (English summary) (*see* **98e:05001**)
Mullen, Gary L. *see* **Hsu, Leetsch Charles; et al., 98i:11011**
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Ono, Ken *see* **Ahlgren, Scott; et al.**
Rogers, Douglas G. *see* **Woan, Wen-Jin; et al., 98k:05008**
Santmyer, Joseph M. A Stirling like sequence of rational numbers. (English summary) **98a:05007**
Schmidt, Frank W. (*with* Simion, Rodica) Some geometric probability problems involving the Eulerian numbers. (English summary) **98b:52010**
Scott, Alexander D. Reconstructing sequences. (English summary) **98h:05142**
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Shur, Walter The last digit of $\binom{2n}{2}$ and $\sum \binom{n}{i}\binom{2n-2i}{n-i}$. (English summary) **98c:11016**
Simion, Rodica *see* **Schmidt, Frank W., 98b:52010**
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Warnaar, S. Ole A note on the trinomial analogue of Bailey's lemma. (English summary) **98k:11011**

Wilf, Herbert S. On crossing numbers, and some unsolved problems. (English summary) **98i:05062**

Wilson, Brad Asymptotic behavior of Pascal's triangle modulo a prime. **98k:11012**

Woan, Wen-Jin (*with* Shapiro, Lou; Rogers, Douglas G.) The Catalan numbers, the Lebesgue integral, and 4^{n-2}. **98k:05008**

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Zhang, Zhi Zheng Some properties of the generalized Fibonacci sequences $C_n = C_{n-1} + C_{n-2} + r$. **98a:11023**

05A15 Exact enumeration problems, generating functions [see also 33Cxx, 33Dxx]

Amel'kin, V. A. ★ Перечислительные задачи серийных последовательностей. (Russian. English and Russian summaries) [Enumerative problems of serial sequences] **98b:05002**

Athanasiadis, Christos A. A class of labeled posets and the Shi arrangement of hyperplanes. (English summary) **98d:05008**

Bapeswara Rao, V. V. (*with* Rao, M. Bhaskara) A generalization of the Jerusalem ticket problem. (English summary) **98f:05003**

Barcucci, Elena (*with* Del Lungo, Alberto; Fezzi, S.; Pinzani, Renzo) Nondecreasing Dyck paths and q-Fibonacci numbers. (English summary) **98d:05009**

Bayoumi, B. I. (*with* El-Zahar, Mohamed H.; Khamis, S. M.) Algorithmic counting of types of UPO graphs and posets. (English summary) **98j:05002**

Benoumhani, Moussa On some numbers related to Whitney numbers of Dowling lattices. (English summary) **98f:05004**

Bóna, Miklós The number of permutations with exactly r 132-subsequences is P-recursive in the size! (English summary) **98b:05003**

— Exact enumeration of 1342-avoiding permutations: a close link with labeled trees and planar maps. (English summary) **98j:05003**

Bouchard, P. (*with* Fong, Yuen; Ke, Wen-Fong; Yeh, Yeong Nan) Counting f such that $f \circ g = g \circ f$. (English summary) **98c:05003**

Bousquet-Mélou, Mireille (*with* Guttmann, Anthony J.) Enumeration of three-dimensional convex polygons. (English summary) **98j:05004**

— New enumerative results on two-dimensional directed animals. (English summary) **98m:05004**

Burstein, Alexander (*with* Wilf, Herbert S.) On cyclic strings without long constant blocks. **98h:05012**

Chen, Wen Li The generating function method for combinatorial enumeration. (Chinese. English and Chinese summaries)

Chen, Zhaodou (*with* Shen, Yanan; Liu, Shaojun) Möbius inversion on a multiplicative semigroup and inverse lattice problems in physics. (English summary) **98i:05004**

Choi, Seul Hee *see* **Park, H. G.; et al., 98f:05008**

Cramer, Michael (*with* Rüschendorf, Ludger) Analysis of recursive algorithms by the contraction method. (English summary) **98g:05009**

Cusick, Thomas W. (*with* Stănică, Pantelimon) Counting the n-chromos of I. J. Schoenberg. (English summary) **98g:05010**

Del Lungo, Alberto *see* **Barcucci, Elena; et al., 98d:05009**

Deutsch, Emeric A bijection on Dyck paths and its consequences. (English summary) **98g:05011**

— Corrigendum: "A bijection on Dyck paths and its consequences" [Discrete Math. **179** (1998), no. 1-3, 253–256; MR 98g:05011]. (English summary)

Dohmen, Klaus A note on Möbius inversion over power set lattices. (English summary) **98c:05004**

Dress, Andreas W. M. (*with* Müller, Thomas W.) Decomposable functors and the exponential principle. (English summary) **98h:05013**

Dulucq, S. (*with* Guibert, O.) Stack words, standard tableaux and Baxter permutations. (English and French summaries) **98a:05009**

Dumont, Dominique Grammaires de William Chen et dérivations dans les arbres et arborescences. [Grammars of William Chen and derivations in trees and arborescences] **98j:05005**

Dworkin, Morris Factorization of the cover polynomial. (English summary) **98j:05006**

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— (*with* Zeilberger, Doron) Graphical major indices. (English and French summaries) **98b:05004**

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Fulmek, Markus On pairs of lattice paths with a given number of intersections. **98c:05005**

Gessel, Ira M. (*with* Ree, Sangwook) Lattice paths and Faber polynomials. (English summary) **98h:05014**

— (*with* Weinstein, Jonathan; Wilf, Herbert S.) Lattice walks in $\mathbf{Z}^d$ and permutations with no long ascending subsequences. (English summary) **98j:05007**

Gilbert, E. N. (*with* Hwang, Frank K.) Constrained arrangements of objects in a cycle. (English summary) **98j:05008**

Goulden, I. P. (*with* Kulkarni, D. M.) Multivariable Lagrange inversion, Gessel-Viennot cancellation, and the matrix tree theorem. (English summary) **98j:05009**

Guibert, O. *see* **Dulucq, S., 98a:05009**

Guttmann, Anthony J. *see* **Bousquet-Mélou, Mireille, 98j:05004**

Han, Guo-Niu Une démonstration "vérificative" d'un résultat de Foata-Zeilberger sur les relations bipartitionnaires. (English and French summaries) [A "verifying" proof of a result of Foata and Zeilberger on bipartite relations] **98b:05006**

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Hsu, Leetsch Charles (*with* Shiue, Peter Jau-Shyong) Representation of various special polynomials via the cycle indicator of symmetric group. (English summary) (*see* **98e:05001**)

Hwang, Frank K. (*with* Wright, Paul E.) Generalized Kaplansky line and cycle theorems with multiple constraints. (English summary) **98f:05005**

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Jackson, D. M. (*with* Visentin, T. I.) A formulation for the genus series for regular maps. (English summary) **98b:05007**

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Marenich, E. E. Enumeration of routes in a Boolean algebra with respect to intersection and nonintersection relations. (Russian. Russian summary) **98h:05015**

McKee, Terry A. Graph structure for inclusion-exclusion inequalities. (English summary) **98i:05005**

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Nica, Alexandru Crossings and embracings of set-partitions and q-analogues of the logarithm of the Fourier transform. (English and French summaries) **98c:05007**

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Randrianarivony, Arthur Fractions continues, q-nombres de Catalan et q-polynômes de Genocchi. (English summary) [Continued fractions, q-Catalan numbers and q-Genocchi polynomials] **98e:05007**

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Chen, Nan Xian Inverse problems in statistical physics and Möbius inversion. (English summary) (*see* **98a:82002**)
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Krattenthaler, Christian A bijective proof of the hook-content formula for super Schur functions and a modified jeu de taquin. (English summary) **98a:05155**
— Oscillating tableaux and nonintersecting lattice paths. (English summary) **98b:05103**
— *see also* **Fulmek, Markus, 98a:05152**
Labelle, Gilbert *see* **Constantineau, Ivan, 98e:11023**
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Morris, Ifor (*with* Wensley, C. D.) λ-operations in β-rings. (English summary) **98i:20014**
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Prodinger, Helmut A note on the distribution of the three types of nodes in uniform binary trees. (English summary) **98h:05060**
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Ray, Nigel (*with* Schmitt, William R.; Wright, Colin Douglas) Colouring simplicial complexes. **98c:05017**
Rentein, Paul Geometrical approaches to the enumeration of finite posets: an introductory survey. (English summary) **98g:06010**
(Rota, Gian-Carlo) *see* **Stanley, Richard P., 98a:05001**
Sagan, Bruce E. *see* **Blass, Andreas, 98c:06001**
Schimming, Rainer A partition of the Catalan numbers and enumeration of genealogical trees. (English summary) **98h:05011**
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Segev, Yoav On the order complex of a prelattice. **98b:06006**
Senato, D. (*with* Venezia, A.; Yang, J.) Möbius polynomial species. (English summary) **98k:05011**
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Soria, Michèle *see* **Drmota, Michael, 98c:05011**
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Stanton, Dennis *see* **Simion, Rodica, 98b:33038**
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Van Cutsem, Bernard Combinatorial structures and structures for classification. (English summary) **98c:62119**
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Winkel, Rudolf A combinatorial bijection between standard Young tableaux and reduced words of Grassmannian permutations. (English summary) **98a:05157**
Wright, Colin Douglas *see* **Ray, Nigel; et al., 98c:05017**
Yang, J. *see* **Senato, D.; et al., 98k:05011**
Yen, Lily A combinatorial proof for Stockhausen's problem. (English summary) **98b:05009**
Zhang, Ping[5] The characteristic polynomials of subarrangements of Coxeter arrangements. (English summary) **98i:52016**

05A16 Asymptotic enumeration

Alon, Noga (*with* Vũ, Văn H.) Anti-Hadamard matrices, coin weighing, threshold gates, and indecomposable hypergraphs. (English summary) **98f:05010**
Barvinok, A. I. Approximate counting via random optimization. (English summary) **98m:05009**
Bender, Edward A. (*with* Richmond, L. Bruce) Admissible functions and asymptotics for labelled structures by number of components. (English summary) **98a:05012**
Cameron, Peter J. On the probability of connectedness. (English summary) **98c:05010**
Drmota, Michael (*with* Soria, Michèle) Images and preimages in random mappings. (English summary) **98c:05011**
Hwang, Hsien-Kuei A constant arising from the analysis of algorithms for determining the maximum of a random walk. (English summary) **98i:05007**
Irmatov, A. A. Estimates for the number of threshold functions. (Russian. Russian summary) **98d:05014**
Maxwell, Mark M. On rational structures and their asymptotics. (English summary) **98m:05010**
Mutafchiev, Lyuben R. Limiting distributions for the number of distinct component sizes in relational structures. (English summary) **98f:05011**
Richmond, L. Bruce *see* **Bender, Edward A., 98a:05012**
Skobelev, V. G. Construction of lower exponential bounds. (Russian. English summary) **98i:05008**
Sokolov, N. A. *see* **Vyalyĭ, M. N., 98f:05012**
Soria, Michèle *see* **Drmota, Michael, 98c:05011**
Vũ, Văn H. *see* **Alon, Noga, 98f:05010**
Vyalyĭ, M. N. (*with* Sokolov, N. A.) Quadratic recurrent sequences and estimates for the number of monotone Boolean functions for some orders. (Russian) **98f:05012**

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Arora, D. *see* **Bhatia, D. P.; et al., 98f:82065**
Bender, Edward A. (*with* Canfield, E. Rodney) The fraction of subspaces of $\mathrm{GF}(q)^n$ with a specified number of minimal weight vectors is asymptotically Poisson. (English summary) **98a:11181**
Bhatia, D. P. (*with* Prasad, M. A.; Arora, D.) Asymptotic results for the number of multidimensional partitions of an integer and directed compact lattice animals. (English summary) **98f:82065**
Bolotov, A. A. On metric clustering. (Russian. Russian summary) **98k:62107**

Bóna, Miklós Permutations avoiding certain patterns: the case of length 4 and some generalizations. (English summary) **98k:05002**
Brightwell, Graham (*with* Goodall, Sarah) The number of partial orders of fixed width. (English summary) **98d:06004**
Burris, Stanley Spectrally determined first-order limit laws. (English summary) **98j:03047**
— (*with* Sárközy, András) Fine spectra and limit laws. I. First-order laws. (English summary) **98k:03076a**
— (*with* Compton, Kevin J.; Odlyzko, Andrew; Richmond, L. Bruce) Fine spectra and limit laws. II. First-order 0-1 laws. (English summary) **98k:03076b**
Butler, Jon T. (*with* Sasao, Tsutomu) On the proportion of digits in redundant numeration systems. **98e:11011**
Canfield, E. Rodney From recursions to asymptotics: on Szekeres' formula for the number of partitions. (English summary) **98e:11120**
— *see also* **Bender, Edward A., 98a:11181**
Chistyakov, V. P. *see* **Tikhomirova, M. I., 98j:60011**
Compton, Kevin J. *see* **Burris, Stanley; et al., 98k:03076b**
Cramer, Michael (*with* Rüschendorf, Ludger) Analysis of recursive algorithms by the contraction method. (English summary) **98g:05009**
Del Lungo, Alberto (*with* Nivat, Maurice; Pinzani, Renzo) The number of convex polyominoes reconstructible from their orthogonal projections. (English and French summaries) **98c:05045**
Gittenberger, Bernhard On the number of predecessors in constrained random mappings. (English summary) **98i:60008**
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Haven, G. Neil *see* **Purdom, Paul Walton, Jr., 98f:68242**
Houston, Alice E. D. Densities of perfect linear complexity profile binary sequences. (English summary) **98f:94020**
Korshunov, Aleksei D. On linear extensions of partially ordered sets. (Russian. Russian summary) **98h:06008**
Li, Bang-He (*with* Sun, Hongwei) Exact number of chord diagrams and an estimation of the number of spine diagrams of order n. (English summary) **98e:57013**
Nivat, Maurice *see* **Del Lungo, Alberto; et al., 98c:05045**
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Pinzani, Renzo *see* **Del Lungo, Alberto; et al., 98c:05045**
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Purdom, Paul Walton, Jr. (*with* Haven, G. Neil) Probe order backtracking. (English summary) **98f:68242**
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Sasao, Tsutomu *see* **Butler, Jon T., 98e:11011**
Stark, Dudley Explicit limits of total variation distance in approximations of random logarithmic assemblies by related Poisson processes. (English summary) **98d:60025**
Sun, Hongwei *see* **Li, Bang-He, 98e:57013**
Sundberg, Carl (*with* Thistlethwaite, Morwen) The rate of growth of the number of prime alternating links and tangles. (English summary) **98m:57013**
Thistlethwaite, Morwen *see* **Sundberg, Carl, 98m:57013**
Tikhomirova, M. I. (*with* Chistyakov, V. P.) On the asymptotics of moments of the number of nonappearing s-chains. (Russian. Russian summary) **98j:60011**
Vershik, A. M. Asymptotic combinatorics and algebraic analysis. **98e:60018**
Welsh, Dominic J. A. Approximate counting. (English summary) **98j:68064**
Wilf, Herbert S. On crossing numbers, and some unsolved problems. (English summary) **98i:05062**
Xie, Ting Fan (*with* Zhou, Song Ping) On a sequence of Witt vectors. (English and Chinese summaries) **98f:11023**
Zhou, Song Ping *see* **Xie, Ting Fan, 98f:11023**

05A17 Partitions of integers [see also 11P81, 11P82, 11P83]

Alladi, Krishnaswami Partition identities involving gaps and weights. (English summary) **98c:05012**
Arkin, Joseph (*with* Arney, David C.) Researches on partitions, revisited. (English summary) **98j:05013**
Arney, David C. *see* **Arkin, Joseph, 98j:05013**
Barnes, Tiffany M. (*with* Savage, Carla D.) Efficient generation of graphical partitions. (English summary) **98h:05019**
Nolan, Jennifer M. (*with* Savage, Carla D.; Wilf, Herbert S.) Basis partitions. (English summary) **98g:05015**
Pak, I. M. (*with* Postnikov, A. E.) A generalization of Sylvester's identity. (English summary) **98f:05013**
Park, Seung Kyung The r-complete partitions. (English summary)
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Savage, Carla D. *see* **Nolan, Jennifer M.; et al., 98g:05015** *and* **Barnes, Tiffany M., 98h:05019**
Stanley, Richard P. Parking functions and noncrossing partitions. (English summary) **98m:05011**
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— New classes of infinite 3-way partition identities. (English summary) **98d:11121**
Alladi, Krishnaswami (*with* Andrews, George E.) A new key identity for Göllnitz' (big) partition theorem. (English summary) **98j:11079**
Andrews, George E. (*with* Roy, Ranjan) Ramanujan's method in q-series congruences. (English summary) **98f:11110**
— (*with* de Oliveira Santos, J. P.) Rogers-Ramanujan type identities for partitions with attached odd parts. (English summary) **98k:11143**
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Arratia, Richard (*with* Barbour, A. D.; Tavaré, Simon) Random combinatorial structures and prime factorizations. **98i:60007**
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Barbour, A. D. *see* **Arratia, Richard; et al., 98i:60007**
Blass, Andreas (*with* Sagan, Bruce E.) Möbius functions of lattices. (English summary) **98c:06001**
Brion, Michel (*with* Vergne, Michèle) Residue formulae, vector partition functions and lattice points in rational polytopes. (English summary) **98e:52008**
Buchsbaum, D. A. (*with* Flores de Chela, Delia) Intertwining numbers; the three-rowed case. **98k:13015**
Canfield, E. Rodney From recursions to asymptotics: on Szekeres' formula for the number of partitions. (English summary) **98e:11120**
Celeghini, Enrico (*with* Rasetti, Mario) The Gaussian polynomial, restricted k-rowed plane partitions and Hopf algebras. (English summary) **98j:05014**
Clarke, Robert John[1] (*with* Steingrímsson, Einar; Zeng, Jiang) The k-extensions of some new Mahonian statistics. (English summary) **98g:05018**
Filaseta, Michael The smallest maximal set of pairwise disjoint partitions. **98a:11135**
Flores de Chela, Delia *see* **Buchsbaum, D. A., 98k:13015**
Hua, Jiuzhao Generalizing the recursion relationship for the partition function. (English summary) **98g:11117**
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Kadell, Kevin W. J. Schützenberger's jeu de taquin and plane partitions. (English summary) **98a:05153**
Lewis, Richard P. The ranks of partitions modulo 2. (English summary) **98d:11122**
Nica, Alexandru (*with* Speicher, Roland) A "Fourier transform" for multiplicative functions on non-crossing partitions. (English summary) **98i:46070**
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Pittel, Boris On a likely shape of the random Ferrers diagram. (English summary) **98m:60013**
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Rawlings, Don A probabilistic approach to some of Euler's number-theoretic identities. (English summary) **98j:11080**
Roy, Ranjan *see* **Andrews, George E., 98f:11110**
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Shlyk, V. A. Polytopes of partitions of numbers. (Russian. English and Russian summaries) **98e:52006**
Singh, Shobh Nath Certain partition theorems of Rogers-Ramanujan type. **98h:11126**
Speicher, Roland Free probability theory and non-crossing partitions. (English summary) **98m:46081**
— *see also* **Nica, Alexandru, 98i:46070**
Steiner, George A poset-based method for counting partitions and Ferrers diagrams. (English summary) **98g:05013**
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Tavaré, Simon *see* **Arratia, Richard; et al., 98i:60007**
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Warnaar, S. Ole The Andrews-Gordon identities and q-multinomial coefficients. (English summary) **98m:11108**
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Biane, Philippe Some properties of crossings and partitions. (English summary) **98h:05020**
Boukaabar, Kaddour Median with respect to the minimum-element-moves metric. (English summary) **98a:05013**
Chang, Gerard J. *see* **Liaw, S. C.; et al., 98g:05016**
Goldberg, Robert R. (*with* Shapiro, Jacob; Waxman, Jerry) Approximation algorithm for the optimal partition problem. (English summary) **98i:05009**
Graham, Ronald L. (*with* Rödl, Vojtěch; Ruciński, Andrzej) On Schur properties of random subsets of integers. (English summary) **98c:05013**
Hwang, Frank K. *see* **Liaw, S. C.; et al., 98g:05016**
Klazar, Martin On trees and noncrossing partitions. (English summary) **98k:05009**
Liaw, S. C. (*with* Yeh, Hong-Gwa; Hwang, Frank K.; Chang, Gerard J.) A simple and direct derivation for the number of noncrossing partitions. (English summary) **98g:05016**
Mikhailov, V. G. *see* **Vatutin, V. A., 98d:05015**
Pittel, Boris Random set partitions: asymptotics of subset counts. (English summary) **98h:05021**
Rödl, Vojtěch *see* **Graham, Ronald L.; et al., 98c:05013**
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Shapiro, Jacob *see* **Goldberg, Robert R.; et al., 98i:05009**
Vatutin, V. A. (*with* Mikhailov, V. G.) Asymptotic properties of matrices associated with mappings of partitions. (Russian. Russian summary) **98d:05015**
Wan, Honghui On nearly self-conjugate partitions of a finite set. (English summary) **98f:05014**
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Yeh, Hong-Gwa *see* **Liaw, S. C.; et al., 98g:05016**

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Alesker, S. A remark on the Szarek-Talagrand theorem. (English summary) **98g:52006**
Arora, Savita *see* **Saxena, Ratnesh Rajan, 98d:90076**
Bapeswara Rao, V. V. (*with* Rao, M. Bhaskara) A generalization of the Jerusalem ticket problem. (English summary) **98f:05003**
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Brent, Richard P. *see* **Zhou, Bing Bing, (98k:68006)**
Erdős, Paul[1] (*with* Jackson, Steve; Mauldin, R. Daniel) On infinite partitions of lines and space. (English summary) **98b:03066**
Halbeisen, Lorenz On shattering, splitting and reaping partitions. (English summary) **98k:03102**

Jackson, Steve *see* **Erdős, Paul[1]; et al., 98b:03066**
Konvalina, John On the number of cyclic projective planes. (English summary) **98k:51014**
Kreweras, Germain An additive generation for the Genocchi numbers and two of its enumerative meanings. **98d:05010**
Martin, Paul Purdon The structure of the partition algebras. **98g:05152**
Mauldin, R. Daniel *see* **Erdős, Paul[1]; et al., 98b:03066**
Mingo, James A. (*with* Nica, Alexandru) Crossings of set-partitions and addition of graded-independent random variables. (English summary) **98h:46071**
Nica, Alexandru Crossings and embracings of set-partitions and q-analogues of the logarithm of the Fourier transform. (English and French summaries) **98c:05007**
— *see also* **Mingo, James A., 98h:46071**
Rao, M. Bhaskara *see* **Bapeswara Rao, V. V., 98f:05003**
Ray, Nigel (*with* Schmitt, William R.; Wright, Colin Douglas) Colouring simplicial complexes. **98c:05017**
Rota, Gian-Carlo (*with* Wallstrom, Timothy C.) Stochastic integrals: a combinatorial approach. (English summary) **98m:60081**
Sándor, Csaba On a problem of Erdős. **98b:11022**
Saxena, Ratnesh Rajan (*with* Arora, Savita) Relation between set covering and set partitioning problems. (English summary) **98d:90076**
Schmitt, William R. *see* **Ray, Nigel; et al., 98c:05017**
Shelah, Saharon A finite partition theorem with double exponential bound. (English summary) **98d:05148**
Wallstrom, Timothy C. *see* **Rota, Gian-Carlo, 98m:60081**
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Zhou, Bing Bing (*with* Brent, Richard P.) Jacobi-like algorithms for eigenvalue decomposition of a real normal matrix using real arithmetic. (English summary) (*see* **98k:68006**)

05A19 Combinatorial identities

Abderrezzak, Abdelhamid Multivariate symmetric identities. **98c:05014**
Ahlgren, Scott (*with* Ekhad, Shalosh B.; Ono, Ken; Zeilberger, Doron) A binomial coefficient identity associated to a conjecture of Beukers. (English summary)
Andersen, Erik Sparre (*with* Larsen, Mogens Esrom) Combinatorial identities: a generalization of Dougall's identity. (English summary) **98g:05017**
Chu, Wen Chang Many identities from one. (English summary) **98f:05015**
— Inverse series relations, formal power series and Blodgett-Gessel's type binomial identities. (English summary) **98k:05010**
Cigler, J. Operatormethoden für q-Identitäten. IV. Eine Klasse von q-Gould-Polynomen. [Operator methods for q-identities. IV. A class of q-Gould polynomials] **98m:05012**
— Operatormethoden für q-Identitäten. V. q-Catalan-Bäume. [Operator methods for q-identities. V. q-Catalan trees] **98m:05013**
Clarke, Robert John[1] (*with* Steingrímsson, Einar; Zeng, Jiang) The k-extensions of some new Mahonian statistics. (English summary) **98g:05018**
Cooper, Shaun A new proof of the Macdonald identities for A_{n-1}. (English summary) **98g:05019**
Di, Ji Zheng A class of combinatorial formulas and the moments of B-type operators. (Chinese. English and Chinese summaries)
Ekhad, Shalosh B. *see* **Ahlgren, Scott; et al.**
Fédou, Jean-Marc (*with* Roblet, Emmanuel; Viennot, Xavier Gérard) An identity on Thron's dual continued fractions. (English and French summaries) **98m:05014**
Fehér, Zoltán A generalization of some combinatorial identities. (English summary)
Gilpin, Michael J. Klee's identity and Vandermonde's identity as bilinear forms. (*see* **98h:05003**)
Gould, H. W. (*with* Srivastava, Hari M.) Some combinatorial identities associated with the Vandermonde convolution. (English summary) **98d:05016**
Larsen, Mogens Esrom *see* **Andersen, Erik Sparre, 98g:05017**
Ma, Xinrong Some combinatorial identities on lattice-point poset. (English summary)
Ono, Ken *see* **Ahlgren, Scott; et al.**
Roblet, Emmanuel *see* **Fédou, Jean-Marc; et al., 98m:05014**
Shiromoto, Keisuke A new MacWilliams identity associated with linear codes. (Japanese) (*see* **98e:00013**)
Srivastava, Hari M. *see* **Gould, H. W., 98d:05016**
Steingrímsson, Einar *see* **Clarke, Robert John[1]; et al., 98g:05018**
Viennot, Xavier Gérard *see* **Fédou, Jean-Marc; et al., 98m:05014**
Wang, Tian Ming (*with* Zhang, Xiang De) Some identities related to Genocchi numbers and the Riemann zeta-function. (Chinese. English and Chinese summaries)
Williams, Kenneth S. Bernoulli's identity without calculus. **98c:05015**
Yen, Lily A combinatorial proof for Stockhausen's problem. (English summary) **98b:05009**
Zeilberger, Doron *see* **Ahlgren, Scott; et al.**
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Adler, Allan Magic N-cubes form a free monoid. (English summary) **98d:05031**
Agarwal, Ashok Kumar[1] New classes of infinite 3-way partition identities. (English summary) **98d:11121**
Ahlswede, Rudolf (*with* Cai, Ning) Incomparability and intersection properties of Boolean interval lattices and chain posets. (English summary) **98a:06004**
Andrews, George E. (*with* de Oliveira Santos, J. P.) Rogers-Ramanujan type identities for partitions with attached odd parts. (English summary) **98k:11143**
Cai, Ning *see* **Ahlswede, Rudolf, 98a:06004**
Capparelli, S. Lie algebra representations, combinatorial identities and q-trinomial coefficients. (English summary) **98d:17033**
Chu, Wen Chang The extended Cesàro theorem and hypergeometric asymptotics. (English summary) **98k:33002**
Dasmahapatra, Srinandan On the combinatorics of row and corner transfer matrices of the $A_{n-1}^{(1)}$ restricted face models. (English summary) **98e:82023**
Ewell, John A. A note on a Jacobian identity. (English summary) **98k:33030**
Hsu, Leetsch Charles On a kind of generalized arithmetic-geometric progression. **98c:11018**
Kang, Soon-Yi A new proof of Winquist's identity. **98c:11111**
Krattenthaler, Christian Some q-analogues of determinant identities which arose in plane partition enumeration. (English summary) **98c:05016**
Kremer, Darla (*with* O'Hara, Kathleen M.) A bijection between maximal chains in Fibonacci posets. (English summary) **98c:06002**
McKay, Brendan D. (*with* Radziszowski, Stanisław P.) Subgraph counting identities and Ramsey numbers. (English summary) **98c:05114**
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de Oliveira Santos, J. P. *see* **Andrews, George E., 98k:11143**
Pak, I. M. (*with* Postnikov, A. E.) A generalization of Sylvester's identity. (English summary) **98f:05013**
Paule, Peter (*with* Nemes, I.) A canonical form guide to symbolic summation. **98m:68131**
Petkovšek, Marko (*with* Wilf, Herbert S.) When can the sum of $(1/p)$th of the binomial coefficients have closed form? (English summary) **98d:11021**
Postnikov, A. E. *see* **Pak, I. M., 98f:05013**
Pu, He Ping A class of combinatorial enumeration problems. (Chinese. English and Chinese summaries) **98h:05016**
Radziszowski, Stanisław P. *see* **McKay, Brendan D., 98c:05114**
Simpson, Todd Another deformation of Weyl's denominator formula. (English summary) **98d:05151**
Strehl, Volker Minimal transitive products of transpositions—the reconstruction of a proof of A. Hurwitz. (English summary) **98h:05017**
Vaillé, J. Une bijection explicative de plusieurs propriétés remarquables des ponts. (English summary) [A bijection that explains several remarkable properties of bridges] **98h:05018**
Wang, Er Gang (*with* Wang, Ze Ke) A new identity for binomial coefficients. (Chinese. English summary)
Wang, Ze Ke *see* **Wang, Er Gang**
Wilf, Herbert S. *see* **Petkovšek, Marko, 98d:11021**
Zhao, Feng Zhen (*with* Niu, Feng Wen) New proofs of two Rogers-Ramanujan identities. (Chinese. English and Chinese summaries) **98f:11021**

05A20 Combinatorial inequalities

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Chen, Yong-Gao On addition of two sets of integers. **98b:11021**
Clements, G. F. Additive Macaulay posets. (English summary) **98h:05174**

05A30 q-calculus and related topics [see also 03Dxx]

Celeghini, Enrico (*with* Rasetti, Mario) The Gaussian polynomial, restricted k-rowed plane partitions and Hopf algebras. (English summary) **98j:05014**
Crippa, D. (*with* Simon, Klaus; Trunz, P.) Markov processes involving q-Stirling numbers. (English summary) **98d:05017**
Krattenthaler, Christian Some q-analogues of determinant identities which arose in plane partition enumeration. (English summary) **98c:05016**
Randrianarivony, Arthur q, p-analogue des nombres de Catalan. (English summary) [q, p-analogues of the Catalan numbers] **98j:05015**
Rasetti, Mario *see* **Celeghini, Enrico, 98j:05014**
Rawlings, Don Absorption processes: models for q-identities. (English summary) **98b:05010**
Simon, Klaus *see* **Crippa, D.; et al., 98d:05017**
Trunz, P. *see* **Crippa, D.; et al., 98d:05017**
Zhang, Xiang De On q-derangement polynomials. (English summary) **98k:05022**

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Andrews, George E. (*with* Roy, Ranjan) Ramanujan's method in q-series congruences. (English summary) **98f:11110**
— (*with* Berkovich, Alexander) A trinomial analogue of Bailey's lemma and $N = 2$ superconformal invariance. (English summary) **98m:11107**
Berkovich, Alexander *see* **Andrews, George E., 98m:11107**
Bressoud, D. M. On the proof of Andrews' q-Dyson conjecture. **98d:33006**
Cigler, J. Operatormethoden für q-Identitäten. IV. Eine Klasse von q-Gould-Polynomen. [Operator methods for q-identities. IV. A class of q-Gould polynomials] **98m:05012**
— Operatormethoden für q-Identitäten. V. q-Catalan-Bäume. [Operator methods for q-identities. V. q-Catalan trees] **98m:05013**
Constantineau, Ivan (*with* Labelle, Gilbert) Une généralisation automorphe des nombres de Stirling. (English and French summaries) [An automorphic generalization of the Stirling numbers] **98e:11023**
Cooper, Shaun A new proof of the Macdonald identities for A_{n-1}. (English summary) **98g:05019**
Ding, Kequan Rook placements and cellular decomposition of partition varieties. (English summary) **98i:05166**
Fehér, Zoltán A generalization of some combinatorial identities. (English summary)
Johnson, Warren P. A q-analogue of Faà di Bruno's formula. (English summary) **98b:39008**
Kaneko, Jyoichi q-Selberg integrals and Macdonald polynomials. (English summary) **98k:33026**
Kang, Soon-Yi A new proof of Winquist's identity. **98c:11111**
Labelle, Gilbert *see* **Constantineau, Ivan, 98e:11023**
Nica, Alexandru Crossings and embracings of set-partitions and q-analogues of the logarithm of the Fourier transform. (English and French summaries) **98c:05007**
Paule, Peter (*with* Riese, Axel) A Mathematica q-analogue of Zeilberger's algorithm based on an algebraically motivated approach to q-hypergeometric telescoping. (English summary) **98i:33021**
Randrianarivony, Arthur Fractions continues, q-nombres de Catalan et q-polynômes de Genocchi. (English summary) [Continued fractions, q-Catalan numbers and q-Genocchi polynomials] **98e:05007**

Rawlings, Don A probabilistic approach to some of Euler's number-theoretic identities. (English summary) **98j:11080**
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Sagan, Bruce E. (*with* Zhang, Ping[6]) Arithmetic properties of generalized Euler numbers. (English summary) **98h:11025**
Simion, Rodica (*with* Stanton, Dennis) Octabasic Laguerre polynomials and permutation statistics. (English summary) **98b:33038**
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Stokman, Jasper V. Multivariable big and little q-Jacobi polynomials. (English summary) **98f:33034**
Wang, Tian Ming (*with* Zhang, Xiang De) Two summation formulas for basic bilateral series. (English summary) (*see* **98e:05001**)
Warnaar, S. Ole The Andrews-Gordon identities and q-multinomial coefficients. (English summary) **98m:11108**
— A note on the trinomial analogue of Bailey's lemma. (English summary) **98k:11011**
Yen, Lily A two-line algorithm for proving q-hypergeometric identities. (English summary) **98j:33010**
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Zhang, Xiang De *see* **Wang, Tian Ming**, (**98e:05001**)

05A40 Umbral calculus

Di Bucchianico, A. ★ Probabilistic and analytical aspects of the umbral calculus. **98d:05018**
Méndez, Miguel A. The umbral calculus of symmetric functions. **98d:05019**
Ray, Nigel (*with* Schmitt, William R.; Wright, Colin Douglas) Colouring simplicial complexes. **98c:05017**
Schmitt, William R. *see* **Ray, Nigel; et al.**, **98c:05017**
Senato, D. (*with* Venezia, A.; Yang, J.) Möbius polynomial species. (English summary) **98k:05011**
Venezia, A. *see* **Senato, D.; et al.**, **98k:05011**
Wright, Colin Douglas *see* **Ray, Nigel; et al.**, **98c:05017**
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Lamrini, Fayçal Une application du calcul "umbral" non classique en topologie algèbrique. (French summary) [An application of nonclassical umbral calculus in algebraic topology] **98b:55005**
Lenart, Cristian (*with* Ray, Nigel) Chromatic polynomials of partition systems. (English summary) **98c:05063**
Niederhausen, Heinrich Lattice path enumeration and umbral calculus. (English summary) **98g:05012**
Ray, Nigel *see* **Lenart, Cristian**, **98c:05063**

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Aigner, Martin (*with* Li, Anping) Searching for counterfeit coins. (English summary) **98c:05018**
Amdeberhan, Tewodros (*with* Zeleke, Melkamu) On injectivity of the combinatorial Radon transform of order five. (English summary) **98f:05016**
Araki, Yoshiaki *see* **Hanada, Akira; et al.**, (**98d:68179**)
Bandlow, Jason (*with* Molina, Robert) Reconstruction of bit strings from their substrings. (English summary) **98j:05016**
Benchekroun, S. (*with* Moszkowski, P.) A bijective proof of an enumerative property of legal bracketings. (English summary) **98k:05012**
Buhler, Joe (*with* Eisenbud, David; Graham, Ronald L.; Wright, Colin Douglas) Juggling drops and descents [MR 96a:05016]. (*see* **98f:00027**)
Cáceres, Alberto Value sets of binomials over finite fields. (English summary) **98j:05017**
Cummings, Larry J. (*with* Smyth, W. F.) Weak repetitions in strings. (English summary) **98h:05023**
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Denise, Alain Génération aléatoire et uniforme de mots. (English and French summaries) [Uniform random generation of words] **98e:05008**
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Ekhad, Shalosh B. (*with* Zeilberger, Doron) Proof of Conway's lost cosmological theorem. (English summary) **98i:05010**
Graham, Ronald L. *see* **Buhler, Joe; et al.**, (**98f:00027**)
Hanada, Akira (*with* Araki, Yoshiaki; Takefuji, Yoshiyasu; Tsuchiya, Kazuhiro) Missionaries and cannibals problems. (*see* **98d:68179**)
Hinz, Andreas M. Square-free Tower of Hanoi sequences. (English summary) **98f:05017**
Iliopoulos, Costas S. (*with* Moore, Dennis; Smyth, W. F.) The covers of a circular Fibonacci string. (English summary) **98k:05013**
Koumandos, Stamatis (*with* Martin, Keith M.) The filing cabinet problem. (English summary)
Kozlov, Dmitry N. (*with* Vũ, Vân H.) Coins and cones. (English summary) **98g:05020**
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Mann, Brad How many times should you shuffle a deck of cards? **98a:05014**
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Morris, S. Brent Practitioner's commentary: card shuffling. **98a:05015**
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Pirillo, Giuseppe (*with* Varricchio, Stefano) Some combinatorial properties of infinite words and applications to semigroup theory. (English summary) **98f:05018**
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Watkins, John J. Knight's tours on triangular honeycombs. (*see* **98h:05003**)
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Yang, Qi Fan An improved algorithm for the counterfeit coin problem. (Chinese. English and Chinese summaries)
Zeilberger, Doron The abstract lace expansion. (English summary) **98d:05021**
— *see also* **Ekhad, Shalosh B.**, **98i:05010**
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Beck, József Games, randomness and algorithms. (*see* **97f:00032**)
Broline, Duane M. (*with* Loeb, Daniel E.) The combinatorics of Mancala-type games: Ayo, Tchoukaillon, and $1/\pi$. **98a:90166**
Campbell, Paul J. (*with* Chavey, Darrah P.) Tchuka Ruma solitaire. **98a:90164**
Carpi, Arturo On the number of abelian square-free words on four letters. (English summary) **98j:68139**
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Chen, Ting[2] (*with* Skiena, Steven S.) Sorting with fixed-length reversals. (English summary) **98b:92013**
Ferguson, Thomas S. Some chip transfer games. (English summary) **98j:90113**
Garnaev, A. Yu. (*with* Garnaeva, Galina Yu.) An infiltration game on a circumference. **98k:90139**
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Guy, Richard K. What is a game? (English summary) **98a:90167**
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Loeb, Daniel E. How to win at Nim. (English summary) **98e:90247**
— *see also* **Broline, Duane M.**, **98a:90166**
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Louck, James D. Problems in combinatorics on words originating from discrete dynamical systems. (English summary) **98i:68229**
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Majumdar, A. A. K. (*with* Halder, A.) A recursive algorithm for the bottleneck Reve's puzzle. (English summary) **98a:90128**
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(Perrin, Dominique) *see* **Lothaire, M.**, **98g:68134**
Plotnikov, A. D. Set-theoretical properties of extreme combinatorial problems. (English summary)
Read, R. C. Combinatorial problems in the theory of music. (English summary) **98h:00017**
Savage, Carla D. A survey of combinatorial Gray codes. (English summary) **98m:94052**
Shashkin, Yu. A. Variants of the Tucker combinatorial lemma. (Russian. English and Russian summaries) **98i:57047**
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Wan, Peng-Jun (*with* Yang, Qi Fan; Kelley, Dean) A $\frac{3}{2}$ log 3-competitive algorithm for the counterfeit coin problem. (English summary) **98i:68129**
— *see also* **Kelley, Dean; et al.**, **98c:68091**
Yam, Yeung (*with* Song, Jingyan) Extending Shannon's theorem to a general juggling pattern. (English summary) **98g:70007**
Yamasaki, Yōhei The arithmetic of reversed positional games. (English summary) **98a:90165**
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Zbaganu, G. Waiting for an ape to type a poem. (English and Moldavian summaries)

05Bxx Designs and configurations {For applications of design theory, see 94C30.}

05B05 Block designs [see also 51E05, 62K10]

Abel, Julian *see* **Greig, Malcolm**, **98d:05026**
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Ajoodani-Namini, S. All block designs with $b = \binom{v}{k}/2$ exist. (English summary) **98k:05014**
Angelis, L. (*with* Bora-Senta, E.; Moyssiadis, C.) Optimal designs with a single two-level factor and n autocorrelated observations. (English summary) **98i:05011**
Assaf, Ahmed M. (*with* Singh, L. P. S.) On covering designs with block size 5 and index $11 \le \lambda \le 21$: the case $v \equiv 0 \pmod 4$. (English summary) **98b:05011**
— Modified group divisible designs with block size 4 and $\lambda > 1$. (English summary) **98e:05009**
Balasubramanian, Krishnaswami Application of difference sets and Galois fields to block designs. (*see* **98b:00017**)
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Bao, Xiaomin *see* **Batten, L. M.**, **98j:05018**
Batten, L. M. (*with* Bao, Xiaomin) Equitable colourings in the Witt designs. **98j:05018**
Bellew, James Counting the number of compound and Nasik magic squares. (English summary)

Bennett, F. E. (*with* Wei, Ruizhong) The existence of Schröder designs with equal-sized holes. (English summary) **98e:05010**
— (*with* Zhang, Xuebin) Perfect Mendelsohn designs with equal-sized holes and block size four. (English summary) **98a:05016**
— (*with* Chang, Yan Xun; Yin, Jian Xing; Zhang, Hantao) Existence of HPMDs with block size five. (English summary) **98d:05022**
— (*with* Wei, Ruizhong; Zhang, Hantao) Holey Schröder designs of type $2^n u^1$. (English summary) **98m:05015**
— *see also* **Mullin, Ronald C.; et al., 98i:05016**
Berardi, Luigia On blocking sets in a design. (English summary) **98f:05020**
— A note on 3-blocked designs. (English summary) **98k:05015**
Betten, Anton (*with* Kerber, Adalbert; Kohnert, Axel; Laue, Reinhard; Wassermann, Alfred) The discovery of simple 7-designs with automorphism group $P\Gamma L(2, 32)$. (English summary) **98f:05021**
— (*with* Laue, Reinhard; Wassermann, Alfred) Simple 6- and 7-designs on 19 to 33 points. (English summary) (*see* **98h:05002**)
Billington, Elizabeth J. (*with* Fu, Chin-Mei; Fu, Hung-Lin) 2-colouring $\{C_3, C_4\}$-designs. **98d:05023**
Bluskov, Iliya (*with* Hämäläinen, Heikki O.) New upper bounds on the minimum size of covering designs. (English summary) **98k:05016**
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— *see also* **Yin, Jian Xing; et al., 98i:05018**
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Danziger, Peter Uniform restricted resolvable designs with $r = 3$. (English summary) **98d:05024**
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Duan, Xiaoping (*with* Kageyama, Sanpei) Some characteristic of partially balanced incomplete block designs. (English summary) **98d:05025**
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— *see also* **Miao, Ying; et al., 98f:05025**
Dutta, Tridib K. (*with* Roy, Bimal Kumar) Construction of symmetric balanced squares. (English summary) **98k:05017**
Francel, Margaret A note on the number of two-block configurations in BTD's with parameters $(V, B, R, 3, 3)$. (English summary) **98j:05019**
Fu, Chin-Mei *see* **Billington, Elizabeth J.; et al., 98d:05023**
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Genma, Masaki (*with* Mishima, Miwako; Jimbo, Masakazu) Cyclic resolvability of cyclic Steiner 2-designs. (English summary) **98a:05018**
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Gray, Brenton D. Smallest defining sets of designs associated with $PG(d, 2)$. (English summary) **98f:05022**
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Harada, Masaaki New 5-designs constructed from the lifted Golay code over Z_4. (English summary) **98k:05018**
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Ionin, Yury J. New symmetric designs from regular Hadamard matrices. (English summary) **98j:05020**
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Jimbo, Masakazu *see* **Genma, Masaki; et al., 98a:05018** *and* **Mishima, Miwako, 98j:05024**
John, J. A. Interchange algorithms for constructing designs with complex blocking structures. (English summary) **98c:05021**
Kageyama, Sanpei (*with* Miao, Ying) Some methods of construction of rectangular PBIB designs. (English summary) **98f:05023**
— (*with* Pal, Satyabrata; Majumder, Anurup) General methods of construction of balanced designs. (English summary) **98a:05019**
— *see also* **Duan, Xiaoping, 98d:05025; Miao, Ying; et al., 98f:05025; Philip, Jose; et al., 98h:05027** *and* **Mohan, R. N., 98i:05015**
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— (*with* Singhi, N. M.) Further characterization of basic trades. (English summary) **98b:05012**
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— On almost D-optimal first order saturated designs and their efficiency. (English summary) **98i:05014**
Kurokawa, Takakazu (*with* Takefuji, Yoshiyasu) BIBD problems. (*see* **98d:68179**)
Lam, Clement Wing Hong (*with* Tonchev, Vladimir D.) Classification of affine resolvable 2-(27, 9, 4) designs. (English summary) **98a:05020**
— Computer construction of block designs. (English summary) **98f:05024**
Laue, Reinhard *see* **Betten, Anton; et al., 98f:05021** *and* (**98h:05002**)
Lee, Therese C. Y. (*with* Furino, Steven) The existence of NRB$[v, k]$ where $k + 1$ is an even prime power. (English summary) **98k:05019**
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van Lint, Jacobus Hendricus On the number of blocks in a generalized Steiner system. (English summary) **98j:05022**
Liu, Wei Jun (*with* Li, Hui Ling) A generalization of the Camina-Gagen theorem. II. (Chinese. English and Chinese summaries) **98c:05023**
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— *see also* **Kageyama, Sanpei, 98f:05023**
Mishima, Miwako (*with* Jimbo, Masakazu) Some types of cyclically resolvable cyclic Steiner 2-designs. (English summary) **98j:05024**
— *see also* **Genma, Masaki; et al., 98a:05018**
Mohan, R. N. (*with* Kageyama, Sanpei) New series of α-resolvable and almost α-resolvable PBIB designs. (English summary) **98i:05015**
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Mukhamet'yanov, I. T. Block designs associated with normal subsets of finite groups. (Russian. English and Russian summaries) **98j:05025**
Mullin, Ronald C. (*with* Ling, Alan C. H.; Abel, R. Julian R.; Bennett, F. E.) On the closure of subsets of $\{4, 5, \cdots, 9\}$ which contain $\{4\}$. **98i:05016**
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Pavčević, Mario-Osvin Symmetric designs of Menon series admitting an action of Frobenius groups. (English summary) **98c:05024**
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Philip, Jose (*with* Banerjee, Shakti; Kageyama, Sanpei) Construction of nested t-associate PBIB designs under restricted dualization. (English summary) **98h:05027**
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Raghavarao, Damaraju (*with* Zhou, Bei) A method of constructing 3-designs. (English summary)
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— (*with* Ling, Alan C. H.; Colbourn, Charles J.; Abel, R. Julian R.) The existence of uniform 5-GDDs. (English summary) **98i:05018**
— *see also* **Bennett, F. E.; et al., 98d:05022**
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Bhowmick, J. L. (*with* Shil, R. N.) A general method of constructing 6×2^3 design in 6×2 plots block. (English summary)
Bose, Mausumi Some efficient incomplete block sequences. (English summary) **98f:62227**
Bouwkamp, C. J. ★ On Benjamin's pentomino cube. (English summary) **98m:00005**
Buchthal, D. C. *see* **Dey, Aloke; et al., 98h:62120**
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Colbourn, Charles J. (*with* Haddad, Lucien; Linek, Václav) Balanced Steiner triple systems. (English summary) **98m:05018**
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Ghosh, Dilip Kumar (*with* Patel, A. H.; Bagui, Subhash C.; Hemasinha, Rohan) Construction of balanced ternary designs and proper balanced $(m+1)$-ary designs. (English summary)
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05B07 Triple systems

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Gardner, Robert Bentley (*with* Micale, Biagio; Pennisi, Mario; Calahan-Zijlstra, Rebecca) Cyclic and rotational hybrid triple systems. (English summary) **98f:05027**
— (*with* Micale, Biagio; Pennisi, Mario; Calahan-Zijlstra, Rebecca) Cyclic and rotational hybrid triple systems. (English summary) **98j:05028**
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Jiang, Zhike On rotational Steiner triple systems: five, seven and eleven. (English summary) **98k:05023**
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— *see also* **Gardner, Robert Bentley; et al., 98f:05027** *and* **98j:05028**
Milazzo, Lorenzo (*with* Tuza, Zsolt) Upper chromatic number of Steiner triple and quadruple systems. (English summary) **98k:05025**
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05B10 Difference sets (number-theoretic, group-theoretic, etc.) [see also 11B13]

Arasu, K. T. (*with* Davis, James Andrew; Jedwab, Jonathan; Ma, Siu Lun; McFarland, Robert L.) Exponent bounds for a family of abelian difference sets. (English summary) **98b:05014**

— (*with* Ma, Siu Lun; Voss, N. J.) On a class of almost perfect sequences. (English summary) **98k:05026**

Buratti, Marco From a $(G, k, 1)$ to a $(C_4 \oplus G, k, 1)$ difference family. (English summary) **98h:05034**

— On resolvable difference families. (English summary) **98h:05035**

Chee, Yeow Meng (*with* Colbourn, Charles J.) Constructions for difference triangle sets. (English summary) **98j:05029**

Chen, Yu Qing (*with* Ray-Chaudhuri, D. K.; Xiang, Qing) Constructions of partial difference sets and relative difference sets using Galois rings. II. (English summary) **98c:05027**

— On the existence of abelian Hadamard difference sets and a new family of difference sets. (English summary) **98h:05036**

— A construction of difference sets. (English summary) **98j:05030**

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Davis, James Andrew (*with* Sehgal, Surinder K.) Using the simplex code to construct relative difference sets in 2-groups. (English summary) **98c:05028**

— (*with* Jedwab, Jonathan) A unifying construction for difference sets. (English summary) **98g:05021**

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van Eupen, Marija (*with* Tonchev, Vladimir D.) Linear codes and the existence of a reversible Hadamard difference set in $Z_2 \times Z_2 \times Z_5^4$. (English summary) **98a:05026**

García Sánchez, M. A. *see* **Vera López, Antonio, 98a:05029**

Golomb, Solomon W. (*with* Song, Hong-Yeop) A conjecture on the existence of cyclic Hadamard difference sets. (English summary) **98b:05015**

Hedayat, A. S. (*with* Stufken, John; Su, Guoqin) On difference schemes and orthogonal arrays of strength t. (English summary) **98e:05015**

Ito, Noboru (*with* Okamoto, Takeo) On Hadamard groups of order 72. (English summary) **98c:05029**

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Kervaire, Michel *see* **Eckmann, Alain; et al., 98g:05022** *and* **Eliahou, Shalom, 98k:05027**

Leung, Ka Hin (*with* Ling, San; Ma, Siu Lun; Tay, Kian Boon) Almost perfect sequences with $\theta = 2$. (English summary) **98k:05028**

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Ling, San *see* **Leung, Ka Hin; et al., 98k:05028**

Ma, Siu Lun Planar functions, relative difference sets, and character theory. (English summary) **98b:05016**

— (*with* Schmidt, Bernhard) A sharp exponent bound for McFarland difference sets with $p = 2$. (English summary) **98g:05023**

— Some necessary conditions on the parameters of partial difference sets. (English summary) **98j:05031**

— *see also* **Arasu, K. T.; et al., 98b:05014**; **98k:05026** *and* **Leung, Ka Hin; et al., 98k:05028**

McFarland, Robert L. *see* **Arasu, K. T.; et al., 98b:05014**

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Norwood, Thomas E. (*with* Xiang, Qing) On GMW designs and a conjecture of Assmus and Key. (English summary) **98c:05030**

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Pollatsek, Harriet Difference sets in groups of order $4p^4$. (English summary) **98c:05031**

Pott, Alexander ★ Finite geometry and character theory. **98j:05032**

Qiu, Weisheng On the multiplier conjecture. (English summary) **98a:05027**

— Multiplier conjecture and multiplier theorems for non-abelian difference sets. (English summary) (*see* **98e:05001**)

— A character approach to the multiplier conjecture and a new result for the case $n = 3n_1$. (English summary) **98a:05028**

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— *see also* **Chen, Yu Qing; et al., 98c:05027**

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Tay, Kian Boon *see* **Leung, Ka Hin; et al., 98k:05028**

Tonchev, Vladimir D. *see* **van Eupen, Marija, 98a:05026**

VanAken, Troy D. A search for affine difference sets of even order. (English summary) **98g:05024**

Vera López, Antonio (*with* García Sánchez, M. A.) On the existence of abelian difference sets with $100 < k \leq 150$. (English summary) **98a:05029**

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Golomb, Solomon W. The use of combinatorial structures in communication signal design. **98m:94005**

Gysin, Marc New D-optimal designs via cyclotomy and generalised cyclotomy. (English summary) **98a:05039**

Hamilton, G. M. (*with* Ramsay, Colin; Roberts, Ian T.; Rogers, Douglas G.) Uniform perfect systems of sets of iterated differences of size 4. (English summary) **98e:05022**

Jungnickel, Dieter (*with* Vanstone, Scott A.) An application of difference sets to a problem concerning graphical codes. (English summary) **98g:94039**

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Koukouvinos, Christos (*with* Seberry, Jennifer; Whiteman, A. L.; Xia, Ming Yuan) Optimal designs, supplementary difference sets and multipliers. (English summary) **98d:62131**

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Paterson, Kenneth G. Binary sequence sets with favorable correlations from difference sets and MDS codes. (English summary) **98h:94027**

Ramsay, Colin *see* **Hamilton, G. M.; et al., 98e:05022**

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05B15 Orthogonal arrays, Latin squares, Room squares

Abel, R. Julian R. (*with* Colbourn, Charles J.; Yin, Jian Xing; Zhang, Hantao) Existence of incomplete transversal designs with block size five and any index λ. (English summary) **98b:05017**

— (*with* Zhang, Hantao) Direct constructions for certain types of HMOLS. (English summary) **98h:05038**

Adams, Michael J. (*with* Shader, Bryan L.) A construction for (t, m, s)-nets in base q. (English summary) **98e:05016**

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Adler, Allan Magic N-cubes form a free monoid. (English summary) **98d:05031**

Andersen, L. D. (*with* Hilton, A. J. W.) Triangulations of 3-way regular tripartite graphs of degree 4, with applications to orthogonal Latin squares. (English summary) **98g:05025**

Anderson, Ian (*with* Bailey, R. A.) Completeness properties of conjugates of Latin squares based on groups, and an application to bipartite tournaments. (English summary) **98d:05032**

Bailey, R. A. (*with* Chigbu, P. E.) Enumeration of semi-Latin squares. (English summary) **98g:05026**

— A Howell design admitting A_5. (English summary) **98h:05039**

— *see also* **Anderson, Ian, 98d:05032**

Bedford, David Quasi-orthogonal Latin squares and related designs. (English summary) **98f:05024**

Bell, Jason (*with* Djoković, Dragomir Ž.) Construction of Baumert-Hall-Welch arrays and T-matrices. (English summary) **98i:05025**

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"Matchings and Δ-matroids with coefficients" Corrigenda: "Matchings and Δ-matroids with coefficients" [Adv. in Appl. Math. **17** (1996), no. 1, 63–87; MR 97e:05061] by F. Kalhoff and W. Wenzel.
"Maurers's homotopy theory and geometric algebra for even Δ-matroids" Corrigenda: "Maurer's homotopy theory and geometric algebra for even Δ-matroids" [Adv. in Appl. Math. **17** (1996), no. 1, 27–62; MR 97a:05058] by W. Wenzel.

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05B50 Polyominoes

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05Cxx Graph theory {For applications of graphs, see 68Q90, 68R10, 90C35, 94C15.}

Chung, Fan R. K. Open problems of Paul Erdős in graph theory. **98e:05027**
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Zhou, Jie (*with* Yuan, Bing Cheng) Trees and chromodendrons. (Chinese. English and Chinese summaries) **98f:05045**

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van Leeuwen, Marc A. A. Tableau algorithms defined naturally for pictures. (English and French summaries) **98a:05156**
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Dasmahapatra, Srinandan On the combinatorics of row and corner transfer matrices of the $A_{n-1}^{(1)}$ restricted face models. (English summary) **98e:82023**
Doran, William F., IV A plethysm formula for $p_\mu(\underline{x}) \circ h_\lambda(\underline{x})$. (English summary) **98f:05147**

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— (*with* Jarvis, P. D.; Yung, C. M.) Symmetric functions, tableaux decompositions and the fermion-boson correspondence. (English summary) **98m:05194**
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— *see also* **Halverson, Tom; et al., 98c:20014**
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05E15 Combinatorial problems concerning the classical groups [see also 22E45, 33C80]

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— (*with* Kirillov, Anatol N.) Reduced words and plane partitions. (English summary) **98m:05196**
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— *see also* **Berenstein, Arkady; et al., 98j:17008**
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Koike, Kazuhiko Representations of spinor groups and the difference characters of $SO(2n)$. **98m:20052**
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— Characters of representations and paths in $\mathfrak{H}_R^*$. **98j:17024**
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— (*with* Butler, Lynne M.; Matveev, Andreĭ O.) Note on a combinatorial application of Alexander duality. (English summary) **98h:05181**
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Mnukhin, V. B. Some relations for the lengths of orbits on k-sets and $(k-1)$-sets. (English summary) **98g:20006**
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— *see also* **Weidner, Michael, 98f:06003**

05E30 Association schemes, strongly regular graphs

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Collins, Benjamin V. C. The girth of a thin distance-regular graph. (English summary) **98g:05157**
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Griggs, T. S. (*with* Wilson, B. J.) Distance-regular graphs, MH-colourings and MLD-colourings. (English summary) **98f:05151**
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— *see also* **Araya, Makoto; et al., 98c:05169**
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Kasikova, Anna Distance-regular graphs with strongly regular subconstituents. (English summary) **98m:05202**
Katoh, Makoto Classification of distance-regular graphs. (Japanese) (*see* **98h:00039**)
Koishi, Tomoya Distance-regular graphs with $b_i = c_{d-i}$, and two P-polynomial structures. (English summary) **98m:05203**
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— Characterization of the group association scheme of A_5 by its intersection numbers. **98k:05148**
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van Dam, Edwin R. (*with* Haemers, Willem H.) Graphs with constant μ and $\overline{\mu}$. (English summary) **98j:05112**
Duan, Xiaoping (*with* Kageyama, Sanpei) Some characteristic of partially balanced incomplete block designs. (English summary) **98d:05025**
Ericson, Thomas (*with* Simonis, Juriaan; Tarnanen, Hannu; Zinov'ev, V. A.) F-partitions of cyclic groups. (English summary) **98f:20040**
Fiol, M. A. An eigenvalue characterization of antipodal distance-regular graphs. (English summary) **98j:05098**
— (*with* Garriga, E.; Yebra, J. L. A.) From regular boundary graphs to antipodal distance-regular graphs. (English summary) **98m:05161**
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Guo, Haitao Classification of spin models with at most 10 vertices. **98h:82019**
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— Quantum probability theory and spectral analysis of graphs. (Japanese) (*see* **98b:00034**)
Jaeger, François Towards a classification of spin models in terms of association schemes. **98g:57012**
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Makhnev, Aleksandr A. (*with* Paduchikh, D. V.) On 2-locally Seidel graphs. (Russian. Russian summary) **98m:05062**
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Tiep, Pham Huu A remark on a theorem of P. de la Harpe and V. F. R. Jones. **98c:46125**
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05E35 Orthogonal polynomials [see also 33C45, 33C50, 33D45]

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Cherednik, I. Erratum: "Macdonald's evaluation conjectures and difference Fourier transform". **98i:33027b**
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Dijkhuizen, Mathijs S. Some remarks on the construction of quantum symmetric spaces. (English summary) **98c:33020**
Feinsilver, Philip (*with* McSorley, John P.; Schott, René) Combinatorial interpretation and operator calculus of Lommel polynomials. (English summary) **98a:33002**
Ishikawa, Masao (*with* Wakayama, Masato) Minor summation formula and applications, discrete Fourier transforms. (English summary) **98g:15006**
Kim, Dongsu On combinatorics of Al-Salam Carlitz polynomials. (English summary) **98b:33036**
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Simion, Rodica (*with* Stanton, Dennis) Octabasic Laguerre polynomials and permutation statistics. (English summary) **98b:33038**
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05E99 None of the above, but in this section

Lawrence, Ruth J. Yang-Baxter type equations and posets of maximal chains. (English summary) **98g:05161**

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Björner, Anders (*with* Wachs, Michelle L.) Shellable nonpure complexes and posets. II. (English summary) **98b:06008**
Cameron, Peter J. (*with* Kantor, William M.) Random permutations: some group-theoretic aspects [MR 95b:20006]. (English summary) (*see* **98d:00027**)
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06–XX Order, lattices, ordered algebraic structures [see also 18B35]

06–02 Research exposition (monographs, survey articles)

O'Donnell, Christopher J. *see* **Spiegel, Eugene, 98g:06001**
Spiegel, Eugene (*with* O'Donnell, Christopher J.) ★ Incidence algebras. (English summary) **98g:06001**

Items with secondary classifications in 06–02

(Rota, Gian-Carlo) *see* **Stanley, Richard P., 98a:05001**
Stanley, Richard P. ★ Enumerative combinatorics. Vol. 1. (English summary) **98a:05001**

06–03 Historical (must also be assigned at least one classification number from Section 01)

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Rota, Gian-Carlo The many lives of lattice theory.

06Axx Ordered sets

06A05 Total order

Fishburn, Peter C. Failure of cancellation conditions for additive linear orders. (English summary) **98k:06001**

Items with secondary classifications in 06A05

Downey, Rodney G. On presentations of algebraic structures. **98k:03099**
Dutta, Bhaskar (*with* Sen, Arunava) Ranking opportunity sets and Arrow impossibility theorems: correspondence results. (English summary) **98a:90013**
Ewacha, Kevin (*with* Rival, Ivan; Zaguia, Nejib) Approximating the number of linear extensions. (English summary) **98g:06009**
Farah, Ilijas OCA and towers in $\mathcal{P}(\mathbf{N})/\mathrm{fin}$. (English summary) **98f:03043**
Kronheimer, E. H. Extending the category of linearly ordered spaces. **98g:54071**
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Pincus, David The dense linear ordering principle. (English summary) **98j:03071**
Purisch, S. Van Douwen's problem on 0-dimensional images of ordered compacta. (English summary) **98c:54021**
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06A06 Partial order, general

Belaïd, Karim (*with* Cherif, Bahri; Echi, Othman) On spectral binary relation [relations]. **98a:06001**
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Chajda, Ivan (*with* Snášel, Václav) Congruences in ordered sets. (English summary) **98k:06002**
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Lagler, Manfred (*with* Volkmann, Peter) Über Fixpunktsätze in geordneten Mengen. (German summary) [On fixed-point theorems in ordered sets] **98h:06005**
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Weidner, Michael (*with* Welker, Volkmar) On the poset of conjugacy classes of subgroups of π-power index. (English summary) **98f:06003**
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06A09 Cohomology of posets [see also 05E25]

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Estabrook, George Ancestor-descendant relations and incompatible data: motivation for research in discrete mathematics. (English summary) (*see* **98h:92004**)
Mooney, Douglas D. (*with* Richmond, Thomas A.) Ordered quotients and the semilattice of ordered compactifications. (English summary) **98k:54057**
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06A15 Galois correspondences, closure operators

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Marcus, Solomon Contextual grammars and natural languages. **98i:68171**
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06A23 Complete lattices, completions

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Shi, Enwei (*with* Ma, Rui) Some results of the associate operations. (English and Chinese summaries) **98a:06009**
Shum, Kar Ping (*with* Yang, An Zhou) Complete subsets in a complete lattice and their corresponding functions. (Chinese. English and Chinese summaries)
Swamy, U. M. (*with* Rao, G. C.; Seshagiri Rao, R.; Ramanuja Rao, K.) The lattice of closed subsets of a topological space. (English summary) **98m:06008**
Wang, Zhudeng (*with* Yu, Yandong) *TL*-subrings and *TL*-ideals. II. Generated *TL*-ideals. (English summary) **98b:06011**
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Eklof, Paul C. (*with* Zimmermann-Huisgen, Birge; Shelah, Saharon) Torsion modules, lattices and p-points. (English summary) **98m:16037**
Flagg, Robert C. Quantales and continuity spaces. **98g:06018**
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Vickers, Steven Constructive points of powerlocales. (English summary) **98h:18003**
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06Bxx Lattices [see also 03G10]

06B05 Structure theory

Adams, M. E. (*with* Freese, Ralph; Nation, J. B.; Schmid, Jürg) Maximal sublattices and Frattini sublattices of bounded lattices. (English summary) **98d:06008**
Bordalo, Gabriela (*with* Monjardet, Bernard) Reducible classes of finite lattices. (English summary) **98h:06014**
Caspard, Nathalie *see* **Monjardet, Bernard**, **98h:06015**
Chu, Wen Chang Distributivity and decomposability on the lattices satisfying the chain conditions. (English summary) **98f:06005**
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Grzeszczuk, Piotr (*with* Puczyłowski, Edmund R.) A radical of lattices and its applications to rings and modules. **98m:06009**
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Horváth, Alexandru On some Jordan-Hölder-Dedekind type theorems in lattices. (English summary) **98a:06012**
Jakubík, Ján Directly indecomposable direct factors of a lattice. (English summary) **98a:06013**
Krempa, Jan (*with* Terlikowska-Osłowska, Barbara) On uniform dimension of lattices. (English summary) **98m:06010**
Lavanya, S. (*with* Parameshwara Bhatta, S.) On an ordering of convex sublattices preserving planarity of the lattice. **98b:06012**
Majumdar, Subrata (*with* Sultana, Quazi Selina) The lattice of L-fuzzy sets. (English summary) **98a:06014**
Monjardet, Bernard (*with* Caspard, Nathalie) On a dependence relation in finite lattices. (English and French summaries) **98h:06015**
— *see also* **Bordalo, Gabriela**, **98h:06014**
Nasieniewski, Marek (*with* Pietruszczak, Andrzej) An elementary proof of equivalence of conditions in defining of conditionally distributive lattices.
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Burusco Juandeaburre, A. (*with* Fuentes-González, R.) Conceptual knowledge from L-fuzzy contexts. (English summary) **98a:03083**
Freese, Ralph Computing congruence lattices of finite lattices. (English summary) **98h:06016**
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Hedlíková, Jarmila (*with* Katriňák, Tibor) Lattice betweenness relation and a generalization of König's lemma. (English summary) **98m:06001**
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06B10 Ideals, congruence relations

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— (*with* Wang, Da Bin) A lower bound for congruence representations. (English summary) **98k:06008**
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— *see also* **Zhang, Yong[1]**, **98h:06017**
Jun, Young Bae (*with* Roh, Eun Hwan; Xu, Yang) LI-ideals in lattice implication algebras. (English summary) **98j:06002**
— (*with* Xu, Yang; Qin, Ke Yun) Positive implicative and associative filters of lattice implication algebras. (English summary) **98j:06003**
Lakser, H. *see* **Grätzer, George; et al.**, **98d:06011**
Latif, Md. Abdul (*with* Noor, Abu Saleh Abdun) Two congruences corresponding to N-ideals in a distributive lattice. (English summary) **98a:06015**
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Chajda, Ivan (*with* Snášel, Václav) Congruences in ordered sets. (English summary) **98k:06002**
Jun, Young Bae Implicative filters of lattice implication algebras. **98g:03142**
— (*with* Xu, Yang) On right regular maps of lattice implication algebras. (English summary) **98d:03063**
Katriňák, Tibor Congruence lattices of pseudocomplemented semilattices. **98e:06004**
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06B15 Representation theory

Chajda, Ivan (*with* Czédli, Gábor) Four notes on quasiorder lattices. (English summary) **98m:06011**
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Hartonas, Chrysafis (*with* Dunn, J. M.) Stone duality for lattices. (English summary) **98m:06012**
Herrmann, Christian On automorphism groups of Arguesian lattices. (English summary) **98k:06010**
Šešelja, Branimir (*with* Tepavčević, Andreja) On the collection of lattices determined by the same poset of meet-irreducibles. (English summary) **98m:06013**
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Baddeley, Robert (*with* Lucchini, Andrea) On representing finite lattices as intervals in subgroup lattices of finite groups. (English summary) **98j:20022**
Freese, Ralph Computing congruence lattices of finite lattices. (English summary) **98h:06016**
Krempa, Jan (*with* Terlikowska-Osłowska, Barbara) On uniform dimension of lattices. (English summary) **98m:06010**
Lucchini, Andrea *see* **Baddeley, Robert**, **98j:20022**
Repnitskiĭ, Vladimir B. Lattice universality of free Burnside groups. (Russian. Russian summary) **98b:20039**
— On the representation of lattices by subgroup lattices. (English summary) **98a:20029**
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Tůma, Jiří A remark on representations of lattices by subgroups. (English summary) (*see* **98e:20004**)

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Kang, Young Yug *see* **Yim, Sang Gyou**, **98a:06016**
Petrovich, Alejandro Equations in the theory of Q-distributive lattices. (English summary) **98f:06006**
Struth, Georg On the word problem for free lattices. (English summary) **98j:06004**
Yim, Sang Gyou (*with* Kang, Young Yug) Finitely based lattice varieties. I. **98a:06016**

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Celani, Sergio Arturo Symmetric distributive lattices. (Spanish. English and Spanish summaries) **98b:06017**
Freese, Ralph *see* **Adams, M. E.; et al.**, **98d:06008**
Nation, J. B. *see* **Adams, M. E.; et al.**, **98d:06008**
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Wolter, Frank The structure of lattices of subframe logics. (English summary) **98h:03030**

06B25 Free lattices, projective lattices, word problems [see also 03D40, 08A50, 20F10]

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Navara, Mirko On generating finite orthomodular sublattices. (English summary) **98k:06012**
Wu, Ming Fen *see* **Xie, Xiang Yun**, **98h:06032**
Xie, Xiang Yun (*with* Wu, Ming Fen) Complete distributivity of the lattice LC(S) of lattice-ordered semigroups. (English summary) **98h:06032**

06B30 Topological lattices, order topologies [see also 06F30, 22A26, 54F05, 54H12]

Bühler, Hans-Ulrich Complete partial orders and fixpoints. (English summary) (*see* **98d:00023**)
Cui, Hong Bin (*with* Zheng, Chong You) Stratification structures on a kind of completely distributive lattices and their applications in theory of topological molecular lattices.
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Wang, Guo Jun[1] (*with* Li, Yong Ming) Relations among the category of topological molecular lattices and certain related categories. **98c:06006**
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Gehrke, Mai Uniquely representable posets. (English summary) **98e:06001**
Holwerda, Henk A note on Fell- and epicompactness. (English summary) **98d:54045**
Liang, Jihua (*with* Liu, Ying Ming) Continuous L-domains. (English summary) **98c:06007**
Liu, Ying Ming *see* **Liang, Jihua, 98c:06007**
Nwabueze, K. K. (*with* Van Oystaeyen, Freddy) Presheaves over lattices: application to twisted limits of finite groups. (English summary) **98c:20043**
Priestley, H. A. Intrinsic spectral topologies. (English summary) **98d:54061**
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Xie, Lin (*with* Song, Yujing) On core compactness of semilattices and frames with the Scott open filter topology. (English summary) **98g:54073**
Zhang, De Xue Metrizable completely distributive lattices. (English summary) **98b:54040**

06B35 Continuous lattices, generalizations, applications [see also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]

Drakengren, Thomas A decidable canonical representation of the compact elements in Scott's reflexive domain in $P\omega$. (English summary) **98m:06014**
Huth, Michael A powerdomain of possibility measures. (English summary) (*see* **98f:68012**)
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Makkai, Michael (*with* Rosolini, Giuseppe) Studying repleteness in the category of cpos. (English summary) **98h:06018**
Mislove, Michael W. Using duality to solve domain equations (extended abstract). (English summary) (*see* **98f:68012**)
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Xie, Lin DCPO's for which the Scott open filter topology is T_0. (English summary) **98c:06008**

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Anderson, S. O. (*with* Power, Anthony John) A representable approach to finite nondeterminism. (English summary) **98c:68123**
Ershov, Yu. L. The bounded-complete hull of an α-space. **98g:68100**
Ésik, Zoltán Completeness of Park induction. (English summary) **98j:03044**
Fiore, Marcelo P. Lifting as a KZ-doctrine. (English summary) (*see* **98c:68008**)
— (*with* Rosolini, Giuseppe) The category of cpos from a synthetic viewpoint. (English summary) **98j:68100**
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Flagg, Robert C. (*with* Kopperman, Ralph) Tychonoff poset structures and auxiliary relations. **98g:06002**
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Gehrke, Mai Uniquely representable posets. (English summary) **98e:06001**
Gerritse, Gerard Lattice-valued semicontinuous functions. (English summary) **98g:54019**
Heckmann, Reinhold Abstract valuations: a novel representation of Plotkin power domain and Vietoris hyperspace. (English summary) **98h:68156**
Hoover, D. N. Maximal limit spaces, powerspaces, and Scott domains. (English summary) **98i:68179**
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Koslowski, Jürgen Note on free algebras over continuous domains. (English summary) **98h:08006**
Li, Lei (*with* Wu, Cong Xin) Characterizations of φ-continuous lattices and a topological representation theorem for completely distributive lattices. (Chinese. English and Chinese summaries)
Moschovakis, Yiannis N. (*with* Whitney, Glen T.) Powerdomains, powerstructures and fairness. (English summary) **98h:68158**
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Zhang, Guo-Qiang The largest Cartesian closed category of stable domains. (English summary) **98j:68103**
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Backhouse, Roland (*with* Bijsterveld, Marcel; van Geldrop, Rik; van der Woude, Jaap) Categorical fixed point calculus. (English summary) **98c:68124**
Bai, Shi-Zhong Strongly S-irresolute order homomorphisms on fuzzy lattices. (Chinese. English and Chinese summaries) **98j:54005**
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Isbell, John Some structure of Borel locales. (English summary) **98j:54064**
Lihová, Judita Valuations and distance functions on directed multilattices. (English summary) **98a:06010**
Mobasher, Bamshad (*with* Pigozzi, Don; Slutzki, Giora) Multi-valued logic programming semantics: an algebraic approach. (English summary) **98i:68050**
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Song, Zhen Ming (*with* Xu, Yang) Congruence relations on lattice implication algebras. (Chinese. English and Chinese summaries) **98d:08004**
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06Cxx Modular lattices, complemented lattices

06C05 Modular lattices, Desarguesian lattices

Albu, Toma (*with* Smith, Patrick F.) Localization of modular lattices, Krull dimension, and the Hopkins-Levitzki theorem. II. **98c:06009**
Călugăreanu, Grigore Cocompact lattices. (English summary) **98d:06012**
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Sykes, Scott R. Finite modular effect algebras. (English summary) **98k:06011**

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Bordalo, Gabriela (*with* Monjardet, Bernard) Reducible classes of finite lattices. (English summary) **98h:06014**
Draškovičová, Hilda Modular median algebras generated by some partial modular median algebras. (English summary) **98m:08017**
Herrmann, Christian (*with* Wild, Marcel) A polynomial algorithm for testing congruence modularity. **98a:08002**
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Simonyan, A. Z. Galois theory for Dedekind lattices. II. (Russian. English and Russian summaries) **98a:06008**
Terlikowska-Osłowska, Barbara *see* **Krempa, Jan, 98m:06010**
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06C10 Semimodular lattices, geometric lattices

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06D05 Structure and representation theory

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— (*with* Zawadowski, Marek) Model completions and r-Heyting categories. (English summary) **98m:03079**
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06D25 Post algebras [see also 03G20]

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06D30 De Morgan algebras, Łukasiewicz algebras [see also 03G20]

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Li, Qing Guo Fixed quasi-atom theorems in De Morgan algebra of metric. (English summary)
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06Exx Boolean algebras (Boolean rings) [see also 03G05]

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Zheng, Zhou Shun (*with* Li, Qi Sheng[1]; Chen, Guo Ping) A property of Boolean algebras over infinite permutation groups. (Chinese. English and Chinese summaries)

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06E10 Chain conditions, complete algebras

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Harding, John Free central extensions. (English summary) **98d:06009**
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Morillon, Marianne Les compacts extrêmement discontinus sont finis! [Extremely discontinuous compact spaces are finite!] (*see* **98a:00009**)
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06E20 Ring-theoretic properties [see also 16E50, 16G30]

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Chajda, Ivan (*with* Kotrle, M.) The variety Boolean semiring. **98e:06005**
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Osofsky, Barbara L. Projective dimension of ideals in von Neumann regular rings. (English summary) **98m:16012**

06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)

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Rimatskiĭ, V. V. Bases of admissible inference rules in tabular modal logics of depth 2. (Russian. Russian summary) **98c:03050**
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06E99 None of the above, but in this section

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06Fxx Ordered structures

06F05 Ordered semigroups [see also 20Mxx]

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— Remarks on ordered semigroups, semigroups. (English summary) **98b:06023**
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— On regular ordered semigroups. (English summary) **98i:06006**
— (*with* Lepouras, George; Tsingelis, Michael) On right regular and right duo ordered semigroups. (English summary) **98m:06019**
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06F15 Ordered groups [see also 20F60]

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— Note on [a] certain inequality. (English summary) **98k:26033**
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Jakubík, Ján Convergence l-groups with zero radical. (English summary) **98g:06028**
Lu, Bing Xin (*with* Zhu, Zuo Tong) Actions of lattice-ordered groups on sets. (Chinese. English and Chinese summaries)
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06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [see also 46A40]

Ball, Richard N. (*with* Hagler, James N.) Actions on Archimedean lattice-ordered groups with strong unit. (English summary) **98f:06016**
Bennett, M. K. (*with* Foulis, David J.) Interval and scale effect algebras. **98m:06024**
Cerlienco, L. (*with* Mureddu, M.) Matrix representation of compatible linear orders on $\mathbf{R}^n$ and $\mathbf{N}^n$. (Italian. English summary) **98c:06025**
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Ehrlich, Philip Dedekind cuts of Archimedean complete ordered abelian groups. **98c:06026**
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Zhu, Zuo Tong (*with* Chen, Qing[1]) Extensions of semigroups of partially ordered abelian groups. (English summary) **98a:06027**

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Delon, Françoise (*with* Farré, Rafel) Some model theory for almost real closed fields. (English summary) **98k:03084**
van den Dries, Lou o-minimal structures. **98b:03053**
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Pardo, E. Metric completions of ordered groups and K_0 of exchange rings. (English summary) **98e:46088**
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Sykes, Scott R. Finite modular effect algebras. (English summary) **98k:06011**
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06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80.}

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06F30 Topological lattices, order topologies [see also 06B30, 22A26, 54F05, 54H12]

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Gehrke, Mai Uniquely representable posets. (English summary) **98c:06001**
Grenier, Jean-Pierre Complétion d'une classe de demi-treillis topologiques, applications. (French summary) [Extension of a class of topological semilattices, applications] **98h:06012**
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Kronheimer, E. H. Extending the category of linearly ordered spaces. **98g:54071**
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06F35 BCK-algebras, BCI-algebras [see also 03G25]

Abujabal, Hamza A. S. On k^*-radical in BCI-algebras. (English summary) **98a:06029**
— A relative one-point union of BCK-algebras. (English summary) **98m:06033**
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08–XX General algebraic systems

08–02 Research exposition (monographs, survey articles)

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08–04 Explicit machine computation and programs (not the theory of computation or programming)

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08Axx Algebraic structures [see also 03C05]

08A02 Relational systems, laws of composition

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08A05 Structure theory

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Iancu, Lăcrimioara *see* **Pop, Maria S.**
Idziak, Paweł M. A characterization of finitely decidable congruence modular varieties. (English summary) **98c:08001**
Kearnes, Keith A. (*with* Szendrei, Ágnes) Self-rectangulating varieties of type 5. (English summary) **98b:08001**
— (*with* Kiss, Emil W.; Valeriote, Matthew A.) Minimal sets and varieties. (English summary) **98d:08001**
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— *see also* **Kearnes, Keith A.; et al.**, **98d:08001**
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08A30 Subalgebras, congruence relations

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Chajda, Ivan Tolerance lattice of algebras with restricted similarity type. (English summary) **98d:08002**
— (*with* Czédli, Gábor; Rosenberg, Ivo G.) Kernels of tolerance relations. (English summary) **98g:08003**
— Congruence semimodularity of conservative groupoids. (English summary) **98m:08001**
— (*with* Rosenberg, Ivo G.) Ideals and congruence kernels of algebras. **98d:08003**
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Kondo, Michiro Congruence relations and filters in some variety. (*see* **98d:00023**)
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Sircar, Jayasri (*with* Das Gupta, Asok) Congruences and ideals in [an] Ω-semigroup. (English summary) **98g:08005**
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Barbour, Graham D. (*with* Raftery, James G.) On the degrees of permutability of subregular varieties. **98h:08004**
Buevich, V. A. A variant of the proof of a completeness criterion for functions of k-valued logic. (Russian. Russian summary) **98g:03067**
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Czédli, Gábor *see* **Chajda, Ivan**, **98m:06011**
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Gupta, K. C. (*with* Singh, Tajinder Pal) Fuzzy G-congruences on a groupoid. (English summary)
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Hu, Qing Ping (*with* Li, Dan) Some problems on the connections between algebras of different types. (Chinese. English and Chinese summaries)
Kearnes, Keith A. Critical algebras and the Frattini congruence. II. (English summary) **98g:08010**
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08A35 Automorphisms, endomorphisms

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Kourinnyy, H. C. Weak representability of M-semilattices. **98c:08006**
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— (*with* Rosenberg, Ivo G.) A remark on algebras with the interpolation property. **98m:08007**
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Krokhin, A. A. On clones, transformation monoids, and associative rings. (English summary) **98g:08006**
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Szendrei, Ágnes Nearly-idempotent plain algebras are indeed nearly idempotent plain algebras. (English summary) **98m:08009**
Wang, Da Bin (*with* Kisielewicz, A.) On the minimal extension of the sequence $(0, 1, 1, 7)$. (English summary) **98i:08002**

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— Ideals of algebras in congruence permutable varieties. (English summary)
Csákány, Béla (*with* Kearnes, Keith A.) Algebras whose subalgebras and reducts are trivial. (English summary) **98m:08003**
Denecke, K. (*with* Głazek, K.) M-solid varieties and Q-free clones. (English summary) **98h:08005**
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Kasim-Zade, O. M. Implicit expressibility in two-valued logic and crypto-isomorphisms of two-element algebras. (Russian) **98h:94033**
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08A45 Equational compactness

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08A50 Word problems [see also 03D40, 06B25, 20F10, 68R15]

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— (*with* Dolinka, Igor) Undecidable varieties with solvable word problems. I. (English summary) **98e:08001**
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08A55 Partial algebras

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08B05 Equational logic, Mal′cev (Mal′tsev) conditions

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08B10 Congruence modularity, congruence distributivity

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08B25 Products, amalgamated products, and other kinds of limits and colimits [see also 18A30]

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08B26 Subdirect products and subdirect irreducibility

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08B30 Injectives, projectives

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08Cxx Other classes of algebras

08C05 Categories of algebras [see also 18C05]

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08C10 Axiomatic model classes [see also 03Cxx, in particular 03C60]

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Adámek, Jiří How to sketch quasivarieties. (English summary) **98k:03075**
Auinger, Karl (*with* Hall, T. E.; Reilly, Norman R.; Zhang, Shu Hua[1]) Congruences on the lattice of pseudovarieties of finite semigroups. (English summary) **98h:20100**

Belegradek, Oleg V. Higman's embedding theorem in a general setting and its application to existentially closed algebras. (English summary) **98m:03091**
Celakoski, N. *see* **Čupona, Ǵ., 98d:08010**
(Cole, J. M.) *see* **Lyapin, E. S., 98j:20099**
Čupona, Ǵ. (*with* Celakoski, N.) Free objects in some varieties of groupoids. (English and Macedonian summaries) **98d:08010**
Davey, B. A. (*with* Rosenberg, Ivo G.) Natural dualities and clones. (English summary) **98m:08019**
Evseev, A. E. *see* **Lyapin, E. S., 98j:20099**
Graczyńska, Ewa On some operators on pseudovarieties. II. (English summary) **98m:08015**
Hall, T. E. *see* **Auinger, Karl; et al., 98h:20100**
Hoehnke, Hans-Jürgen Remarks and problems on varieties and quasi-varieties, clones and quasi-clones. (English summary) **98b:18009**
Lenyuk, S. V. On a lattice of quasivarieties of metabelian groups. (Russian. Russian summary) **98c:20050**
Lyapin, E. S. (*with* Evseev, A. E.) ★ The theory of partial algebraic operations. (English summary) **98j:20099**
Margolis, Stuart W. (*with* Sapir, Mark V.; Weil, Pascal) Irreducibility of certain pseudovarieties. (English and French summaries) **98m:20072**
Raftery, James G. (*with* Van Alten, C. J.) On the algebra of noncommutative residuation: polrims and left residuation algebras. (English summary) **98k:06015**
Reilly, Norman R. *see* **Auinger, Karl; et al., 98h:20100**
Rosenberg, Ivo G. *see* **Davey, B. A., 98m:08019**
Sapir, Mark V. *see* **Margolis, Stuart W.; et al., 98m:20072**
Van Alten, C. J. *see* **Raftery, James G., 98k:06015**
Weil, Pascal *see* **Margolis, Stuart W.; et al., 98m:20072**
Zhang, Shu Hua[1] *see* **Auinger, Karl; et al., 98h:20100**

08C99 None of the above, but in this section

Novák, Vítězslav (*with* Novotný, Miroslav) Relational structures and dependence spaces. **98d:08014**
Novotný, Miroslav *see* **Novák, Vítězslav, 98d:08014**

Items with secondary classifications in 08C99

Jakubíková-Studenovská, Danica Retract varieties of monounary algebras. **98m:08011**
Reilly, Norman R. (*with* Zhang, Shu Hua[1]) Complete endomorphisms of the lattice of pseudovarieties of finite semigroups. (English summary) **98b:20096**
Zhang, Shu Hua[1] *see* **Reilly, Norman R., 98b:20096**

11–XX Number theory

11–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Bencze, Mihály *see* **Dumitrescu, Constantin A.**
Dumitrescu, Constantin A. (*with* Bencze, Mihály) References on Smarandache notions. I.

Items listed otherwise than by author

Bibliography:
Smarandache notions *see* **Dumitrescu, Constantin A.**

Items with secondary classifications in 11–00

(Berggren, Lennart) *see* **Pi: a source book, 98f:01001**
(Borwein, Jonathan M.) *see* **Pi: a source book, 98f:01001**
(Borwein, P. B.) *see* **Pi: a source book, 98f:01001**

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Pi: a source book ★ Pi: a source book. **98f:01001**

11–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Atkin, A. O. L.) *see* **Computational perspectives on number theory, 98g:11001**
(Bagemihl, F.) *see* **Khinchin, Aleksandr Yakovlevich, 98k:11001**
Barbeau, Edward J. ★ Power play. (English summary) **98d:11001**
(Buell, D. A.) *see* **Computational perspectives on number theory, 98g:11001**
Clawson, Calvin C. ★ Mathematical mysteries. **98e:11001**
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Goldman, Jay R. ★ The queen of mathematics. (English summary) **98i:11001**
Guinot, Marc ★ Arithmétique pour amateurs (par un autodidacte). Livre I. (French. French summary) [Arithmetic for amateurs (by an autodidact). Book I] **98a:11001**
— ★ Arithmétique pour amateurs (par un autodidacte). Livre II. (French. French summary) [Arithmetic for amateurs (by an autodidact). Book II] **98a:11002**
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Khinchin, Aleksandr Yakovlevich ★ Three pearls of number theory. (English summary) **98k:11001**
(Komm, H.) *see* **Khinchin, Aleksandr Yakovlevich, 98k:11001**
Newman, Donald J. ★ Analytic number theory. (English summary) **98m:11001**
(Seidel, W.) *see* **Khinchin, Aleksandr Yakovlevich, 98k:11001**
(Stillwell, John) *see* **Dedekind, Richard, 98h:11001**
(Teitelbaum, Jeremy) *see* **Computational perspectives on number theory, 98g:11001**

Items listed otherwise than by author

Chicago, IL ★ Computational perspectives on number theory. **98g:11001**
Computational perspectives on number theory ★ Computational perspectives on number theory. **98g:11001**
Conference:
Computational Perspectives on Number Theory ★ Computational perspectives on number theory. **98g:11001**
Festschrift:
Atkin, A. O. L. ★ Computational perspectives on number theory. **98g:11001**

Items with secondary classifications in 11–01

Cofman, Judita Catalan numbers for the classroom? (German summary) **98g:11021**
Conway, John H. ★ The sensual (quadratic) form. **98k:11035**
Demazure, Michel ★ Cours d'algèbre. (French. French summary) [Course of algebra] **98j:11119**
(Fung, Francis Y. C.) *see* **Conway, John H., 98k:11035**
Gouvêa, Fernando Q. ★ p-adic numbers. (English summary) **98h:11155**
Ribenboim, Paulo Are there functions that generate prime numbers? **98h:11009**
Stillwell, John ★ Numbers and geometry. (English summary) **98i:00002**

11–02 Research exposition (monographs, survey articles)

Erdős, Paul[1] Some of my favorite problems and results. **98e:11002**
Ibstedt, Henry ★ Surfing on the ocean of numbers. (English summary) **98f:11001**
Kátai, Imre Research problems in number theory. II. **98m:11002**
Li, Wen-Ch'ing Winnie ★ Number theory with applications. **98b:11001**

Items with secondary classifications in 11–02

Erdős, Paul[1] Some unsolved problems. (*see* **98d:00027**)
Iwaniec, Henryk ★ Topics in classical automorphic forms. **98e:11051**
Nathanson, Melvyn B. ★ Additive number theory. (English summary) **98f:11011**
(Rota, Gian-Carlo) *see* **Stanley, Richard P., 98a:05001**
Stanley, Richard P. ★ Enumerative combinatorics. Vol. 1. (English summary) **98a:05001**

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Problems:
Combinatorics, geometry and probability *see* **Erdős, Paul[1]**, (**98d:00027**)

11–03 Historical (must also be assigned at least one classification number from Section 01)

(Bolyai, János) *see* **Kiss, Elemér**
Garrido, Luis Approximations of the constant π. (Spanish. English and Spanish summaries)
Houzel, Christian ★ Théorème de Fermat. (French) [Fermat's theorem] **98d:11002**
Karatsuba, Anatoliĭ A. I. M. Vinogradov and his method of trigonometric sums. (Russian) **98a:11004**
Kiss, Elemér János Bolyai's enquiries on the decomposition of the primes $4m + 1$ into sums of two squares.
Motohashi, Yōichi Fifty years of analytic number theory—my impressions. (Japanese)
Vardi, Ilan Archimedes' cattle problem. **98m:11003**
(Vinogradov, I. M.) *see* **Karatsuba, Anatoliĭ A., 98a:11004**

Items listed otherwise than by author

Biography:
Vinogradov, I. M. *see* **Karatsuba, Anatoliĭ A., 98a:11004**

Items with secondary classifications in 11–03

Adler, Allan Eisenstein and the Jacobian varieties of Fermat curves. (English summary) **98j:11047**
Bashmakova, I. G. ★ Diophantus and Diophantine equations. (English summary) **98g:11029**
(Berggren, Lennart) *see* **Pi: a source book, 98f:01001**
Bollobás, Béla Paul Erdős—life and work. **98b:01028**
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Christianidis, Jean Maxime Planude sur le sens du terme diophantien plasmatikón. [Maxime Planude on the meaning of the Diophantine term plasmatikón]
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Dutka, Jacques On the summation of some divergent series of Euler and the zeta functions. **98a:11112**
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— *see also* **Bollobás, Béla, 98b:01028**
(de Fermat, Pierre) *see* **Singh, Simon, 98i:01001**
Giacardi, Livia (*with* Roero, C. S.; Viola, C.) Lagrange's contributions to number theory. (Italian. English summary) **98i:01012**
(Gnedenko, Boris Vladimirovich) *see* **Khinchin, Aleksandr Yakovlevich, 98c:11008**
Goldman, Jay R. ★ The queen of mathematics. (English summary) **98i:11001**
Goldstein, Catherine La théorie des nombres dans les Notes aux Comptes Rendus de l'Académie des Sciences (1870–1914): un premier examen. (English summary) [Number theory in the Notes aux Comptes Rendus de l'Académie des Sciences (1870–1914): an initial examination] **98c:01024**
Guinot, Marc ★ Arithmétique pour amateurs (par un autodidacte). Livre I. (French. French summary) [Arithmetic for amateurs (by an autodidact). Book I] **98a:11001**
— ★ Arithmétique pour amateurs (par un autodidacte). Livre II. (French. French summary) [Arithmetic for amateurs (by an autodidact). Book II] **98a:11002**
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Herz-Fischler, Roger ★ A mathematical history of the golden number. (English summary) **98j:01005**
Kapur, J. N. ★ Ramanujan's miracles. (English summary)
Khinchin, Aleksandr Yakovlevich ★ Continued fractions. (English summary) **98c:11008**
(Lagrange, J. L.) *see* **Giacardi, Livia; et al., 98i:01012**
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(Planude, Maxime) *see* **Christianidis, Jean**
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(Ramanujan, Srinivasa Aiyangar) *see* **Kapur, J. N.**
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Biography:
de Fermat, Pierre *see* **Singh, Simon, 98i:01001**
Collected Works:
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Pi: a source book ★ Pi: a source book. **98f:01001**

11–04 Explicit machine computation and programs (not the theory of computation or programming)

Matiyasevich, Yu. V. Computation of generalized Chebyshev polynomials on a computer. (Russian. Russian summary)

11–06 Proceedings, conferences, collections, etc.

(Alladi, Krishnaswami) *see* **Symposium: Number Theory, 98i:11002**
(Catanese, Fabrizio) *see* **Arithmetic geometry, 98d:11003**
(David, Sinnou) *see* **Seminar: Number Theory, 98d:11006**

(Mazur, Barry C.) *see* **Elliptic curves and modular forms, 98g:11002**
(Murty, V. Kumar) *see* **Number theory, 98f:11002**
(Nemoga, Karol) *see* **Number theory, 98d:11005**
(Porubský, Štefan) *see* **Number theory, 98d:11005**
(Rubin, Karl) *see* **Elliptic curves and modular forms, 98g:11002**
(Waldschmidt, Michel) *see* **Number theory, 98f:11002**

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Arithmetic geometry ★ Arithmetic geometry. **98d:11003**
Automorphic forms on algebraic groups ★ Daisū gun ue no hōkei keishiki. (Japanese) [Automorphic forms on algebraic groups] **98d:11004**
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Conference:
Arithmetic ★ Journées Arithmétiques. [Conference on Arithmetic] **98b:11002**
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Algebraic Number Theory and Fermat's Problem ★ Daisūteki seisū ron to Ferumā no mondai. (Japanese) [Algebraic number theory and Fermat's problem] **98e:11003**
Analytic Number Theory ★ Kaisekiteki seisū ron. [Analytic number theory] **98c:11001**
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Arithmetic Geometry ★ Arithmetic geometry. **98d:11003**
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Washington, DC ★ Elliptic curves and modular forms. **98g:11002**

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(Borwein, Jonathan M.) *see* **Organic mathematics, 98f:00027**
(Borwein, P. B.) *see* **Organic mathematics, 98f:00027**
(Cannon, John J.) *see* **Computational algebra and number theory, 98f:68006**
(Chung, Fan R. K.) *see* **Festschrift: Wilf, Herbert S., 98b:00038**
(Corless, Robert M.) *see* **Organic mathematics, 98f:00027**
(Drury, S. W.) *see* **Harmonic analysis and number theory, 98d:00028**
(Herz, Carl S.) *see* **Harmonic analysis and number theory, 98d:00028**
(Holt, Derek F.) *see* **Computational algebra and number theory, 98f:68006**
(Igusa, Jun-ichi) *see* **Algebraic analysis, geometry, and number theory, 98d:00013**
(Jörgenson, Loki) *see* **Organic mathematics, 98f:00027**
Kumar, Shrawan (*with* Laumon, Gérard; Stuhler, Ulrich) ★ Vector bundles on curves—new directions. **98i:14004**
Laumon, Gérard *see* **Kumar, Shrawan; et al., 98i:14004**
(Murty, M. Ram) *see* **Harmonic analysis and number theory, 98d:00028**
(Narasimhan, M. S.) *see* **Kumar, Shrawan; et al., 98i:14004**
Stuhler, Ulrich *see* **Kumar, Shrawan; et al., 98i:14004**
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Algebraic analysis, geometry, and number theory ★ Algebraic analysis, geometry, and number theory. **98d:00013**
Baltimore, MD ★ Algebraic analysis, geometry, and number theory. **98d:00013**
Burnaby, BC ★ Organic mathematics. **98f:00027**
Computational algebra and number theory ★ Computational algebra and number theory. **98f:68006**
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Algebraic Analysis, Geometry, and Number Theory ★ Algebraic analysis, geometry, and number theory. **98d:00013**
Combinatorics and Graph Theory ★ The Wilf Festschrift. **98b:00038**
Harmonic Analysis and Number Theory ★ Harmonic analysis and number theory. **98d:00028**
MAGMA ★ Computational algebra and number theory. **98f:68006**
Festschrift:
Herz, Carl S. ★ Harmonic analysis and number theory. **98d:00028**
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Harmonic analysis and number theory ★ Harmonic analysis and number theory. **98d:00028**
London ★ Computational algebra and number theory. **98f:68006**
Montreal, PQ ★ Harmonic analysis and number theory. **98d:00028**
Organic mathematics ★ Organic mathematics. **98f:00027**
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Special Issue:
Computational algebra and number theory ★ Computational algebra and number theory. **98f:68006**
Workshop:
Organic Mathematics ★ Organic mathematics. **98f:00027**

11Axx Elementary number theory {For analogues in number fields, see 11R04.}

11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors

Polezzi, Marcelo A geometrical method for finding an explicit formula for the greatest common divisor. **98a:11005**
Šami, Zoran N. On generalization of functions $n!$ and $!n$. (English summary) **98a:11006**

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Guinot, Marc ★ Arithmétique pour amateurs (par un autodidacte). Livre I. (French. French summary) [Arithmetic for amateurs (by an autodidact). Book I] **98a:11001**
Haukkanen, Pentti (*with* Wang, Jun[1]) High degree analogs of Menon's identity. (English summary) **98j:11002**
Hong, Shao Fang LCM matrix on an r-fold GCD-closed set. (English and Chinese summaries) **98d:11030**
Hou, Yao Ping The determinants of greatest common divisor matrices. (Chinese. English and Chinese summaries) **98a:15012**
Jarczyk, Witold On an equation of linear iteration. (English summary) **98a:39023**
Rössner, Carsten (*with* Seifert, Jean-Pierre) The complexity of approximate optima for greatest common divisor computations. (English summary) **98d:11159**
Seifert, Jean-Pierre *see* **Rössner, Carsten, 98d:11159**
Wang, Jun[1] *see* **Haukkanen, Pentti, 98j:11002**
Weber, Kenneth Parallel implementation of the accelerated integer GCD algorithm. (English summary) **98h:11165**

11A07 Congruences; primitive roots; residue systems

Agoh, Takashi (*with* Dilcher, Karl; Skula, Ladislav) Fermat quotients for composite moduli. (English summary) **98h:11002**
— (*with* Dilcher, Karl; Skula, Ladislav) Wilson quotients for composite moduli. (English summary) **98h:11003**
Arkin, Joseph (*with* Arney, David C.; Erdős, Paul[1]) Two theorems of Arkin-Arney-Erdos. (*see* **97h:05005**)
Arney, David C. *see* **Arkin, Joseph; et al., (97h:05005)**
Chen, Guo Hui *see* **Gao, Li; et al., 98f:11003**
Dilcher, Karl *see* **Agoh, Takashi; et al., 98h:11002** *and* **98h:11003**
Erdős, Paul[1] *see* **Arkin, Joseph; et al., (97h:05005)**
Gao, Li (*with* Wang, Hui[1]; Chen, Guo Hui) Primitive roots modulo n and their divisibility. (Chinese. English and Chinese summaries) **98f:11003**
Gertsch, Anne Nombres harmoniques généralisés. (English and French summaries) [Generalized harmonic numbers] **98a:11007**
Kohnen, Winfried A simple congruence modulo p. **98e:11004**
Li, Chaoying *see* **Yu, Hong Quan; et al.**
Liu, Xiao Xia Further discussion of congruence relations modulo m. (Chinese. English summary)
Milnes, Paul (*with* Stanley-Albarda, C.) Multiplicative polynomials and Fermat's little theorem for non-primes. (English summary) **98d:11007**
Mohit, Satya (*with* Murty, M. Ram) Wieferich primes and Hall's conjecture. (French summary) **98m:11004**
Mukhopadhyay, Ajay *see* **Sarma, V. L. N., 98e:11005**
Murty, M. Ram *see* **Mohit, Satya, 98m:11004**
Sarma, V. L. N. (*with* Mukhopadhyay, Ajay) A note on special divisibility tests. (English summary) **98e:11005**
Schinzel, Andrzej On homogeneous covering congruences. (English summary) **98b:11003**
Skula, Ladislav *see* **Agoh, Takashi; et al., 98h:11002** *and* **98h:11003**
Stanley-Albarda, C. *see* **Milnes, Paul, 98d:11007**
Wang, Hui[1] *see* **Gao, Li; et al., 98f:11003**
Wang, Yi *see* **Yu, Hong Quan; et al.**
Wu, Sheng Li Quadratic residues and related problems. (Chinese. English and Chinese summaries) **98h:11004**
Wu, Xiang Yi Sums of squares of quadratic residues. (Chinese. English and Chinese summaries) **98d:11008**
Yu, Hong Quan (*with* Wang, Yi; Li, Chaoying) On congruence properties of Stirling-type pairs. (English and Chinese summaries)

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Allouche, Jean-Paul A remark on Apéry's numbers. (English summary) **98m:11007**
Bach, Eric Comments on search procedures for primitive roots. (English summary) **98a:11187**
Bachman, Gennady On divisibility properties of certain multinomial coefficients. (English summary) **98a:11024**
Bhargava, Manjul Congruence preservation and polynomial functions from Z_n to Z_m. (English summary) **98m:05002**
Brown, Ezra Directed graphs defined by arithmetic (mod n). **98k:05077**
Chang, Byung-Hwa *see* **Park, Bongjoo; et al., 98i:11105**
Chang, Taejoo *see* **Park, Bongjoo; et al., 98i:11105**
Dence, Joseph B. (*with* Dence, Thomas P.) Residues. II. Congruences modulo powers of 2. **98i:11003**
— (*with* Dence, Thomas P.) Residues. III. Congruences to general composite moduli. **98i:11004**

Dence, Thomas P. *see* **Dence, Joseph B., 98i:11003** *and* **98i:11004**
Denley, Tristan On a result of Lemke and Kleitman. (English summary) **98a:11028**
Ding, Cun Sheng (*with* Pei, Dingyi; Salomaa, Arto) ★ Chinese remainder theorem. **98d:94001**
Gao, Li (*with* Zhao, Zhen[4]; Wang, Hui[1]; Hu, Zhi Xing) A problem associated with Golomb's conjecture. (Chinese. English and Chinese summaries) **98k:11131**
— *see also* **Wang, Hui[1]; et al., 98k:11114**
Girstmair, Kurt Digit variance and Dedekind sums. (English summary) **98h:11014**
Guinot, Marc ★ Arithmétique pour amateurs (par un autodidacte). Livre II. (French. French summary) [Arithmetic for amateurs (by an autodidact). Book II] **98a:11002**
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Hsu, Chih-Nung On certain character sums over $\mathbf{F}_q[T]$. (English summary) **98f:11091**
Hu, Zhi Xing *see* **Wang, Hui[1]; et al., 98k:11114** *and* **Gao, Li; et al., 98k:11131**
Huard, James G. (*with* Spearman, Blair K.; Williams, Kenneth S.) Pascal's triangle (mod 9). **98c:11014**
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— (*with* Rybak, J. M.; Shannon, Anthony) Analysis of Diophantine properties using modular rings with four and six classes. (English summary) **98k:11029**
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Moree, Pieter On a conjecture of Rodier on primitive roots. (English summary) **98i:11081**
Murata, Leo On the average of the least primitive root modulo p. **98m:11095**
Park, Bongjoo (*with* Chang, Taejoo; Song, Iickho; Chang, Byung-Hwa) Two-dimensional sequences of primitive polynomials. (English summary) **98i:11105**
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Salomaa, Arto *see* **Ding, Cun Sheng; et al., 98d:94001**
Šami, Zoran N. A sequence $u_{n,m}$ and Kurepa's hypothesis on left factorial. (English summary) **98b:11016**
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Sun, Hong (*with* Yao, Tian Ren) Solving residue equations by means of differential equations. (Chinese. Chinese summary) **98m:94008**
Sun, Zhi Wei[1] Exact m-covers and the linear form $\sum_{s=1}^{k} x_s/n_s$. **98h:11019**
Wang, Hui[1] (*with* Hu, Zhi Xing; Gao, Li) Divisibility of primitive roots and their inverses modulo N. (Chinese. English and Chinese summaries) **98k:11114**
— *see also* **Gao, Li; et al., 98k:11131**
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Zhang, Wen Peng On a problem of Brizolis. (Chinese. English and Chinese summaries) **98d:11099**
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11A15 Power residues, reciprocity

Dence, Joseph B. (*with* Dence, Thomas P.) Residues. II. Congruences modulo powers of 2. **98i:11003**
— (*with* Dence, Thomas P.) Residues. III. Congruences to general composite moduli. **98i:11004**
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Lemmermeyer, Franz Rational quartic reciprocity. II. **98f:11004**
Sato, Ken-ichi[1] (*with* Shirai, Susumu) On certain rational expressions whose prime divisors are cubic residues (mod p). **98g:11003**
Shirai, Susumu *see* **Sato, Ken-ichi[1], 98g:11003**
Watanabe, Toshihiro Random walks on SL(2, $\mathbf{F}_2$) and Jacobi symbols of quadratic residues. (English summary) **98h:11005**

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Chamizo, Fernando (*with* Córdoba, Antonio) One-dimensional crystals and quadratic residues. (English summary) **98f:11085**
Córdoba, Antonio *see* **Chamizo, Fernando, 98f:11085**
Hellegouarch, Yves Une généralisation d'un théorème de Terjanian. (French summary) [A generalization of a theorem of Terjanian] **98f:11026**
Helou, Charles Proof of a conjecture of Terjanian for regular primes. (English summary) **98a:11142**
(Legendre, A.-M.) *see* **Pieper, Herbert, 98k:01011**
Pieper, Herbert Über Legendres Versuche, das quadratische Reziprozitätsgesetz zu beweisen. [On Legendre's attempts to prove the quadratic reciprocity law] **98k:01011**

11A25 Arithmetic functions; related numbers; inversion formulas

Adiga, Chandrashekar (*with* Ramaswamy, H. N.) A note on Euler's totient function. **98c:11003**
Andrei, M. (*with* Bălăcenoiu, Ion; Dumitrescu, Constantin A.; Rădescu, E.; Rădescu, N.; Seleacu, Vasile) A linear combination with Smarandache function to obtain the identity. (English summary) (*see* **98h:00035**)
Ashbacher, Charles Palindromic numbers and iterations of the pseudo-Smarandache function.
Atanassov, Krassimir Todorov (*with* Vassilev-Missana, Mladen V.) On two arithmetic sets. **98a:11008**
— Irrational factor: definition, properties and problems. **98f:11005**
— A generalization of an arithmetic function. **98f:11006**
— (*with* Danchev, Stefan S.) A modification of A. Mullin's inequality. (English summary)
— A modification of Sivaramakrishnan-Venkataraman's inequality. (English summary)
Bălăcenoiu, Ion The semilattice with consistent return.
— *see also* **Andrei, M.; et al., (98h:00035)**
Bencze, Mihály (*with* Popovici, Florin; Smarandache, Florentin) About very perfect numbers.
Buschman, R. G. A convolution integral for number-theoretic functions. (English summary)
— Max-products. (English summary)
Cohen, Graeme L. On a conjecture of Mąkowski and Schinzel. **98e:11006**
— (*with* te Riele, Herman J. J.) Errata to: "Iterating the sum-of-divisors function" [Experiment. Math. **5** (1996), no. 2, 91–100; MR 97m:11007].
— (*with* te Riele, Herman J. J.) On φ-amicable pairs. (English summary) **98d:11009**
— *see also* **Hagis, Peter, Jr., 98k:11002**
Danchev, Stefan S. *see* **Atanassov, Krassimir Todorov**
Dumitrescu, Constantin A. *see* **Andrei, M.; et al., (98h:00035)**
Ewell, John A. On an identity of Ramanujan. (English summary) **98f:11007**
Flowers, Joe Some characterizations of perfect numbers. **98f:11008**
Gould, H. W. (*with* Shonhiwa, Temba) Functions of GCD's and LCM's. (English summary) **98j:11001**
Hagis, Peter, Jr. (*with* Cohen, Graeme L.) Every odd perfect number has a prime factor which exceeds 10^6. (English summary) **98k:11002**
Haukkanen, Pentti A multinomial formula for rational arithmetic functions of order $(r, 0)$.
— A characterization of completely multiplicative arithmetical functions. (English summary) **98a:11009**
— (*with* Wang, Jun[1]) High degree analogs of Menon's identity. (English summary) **98j:11002**
— A class of rational arithmetical functions with combinatorial meanings. (English summary) **98f:11009**
— On the real powers of completely multiplicative arithmetical functions. (English summary) **98h:11006**
— *see also* **Tóth, László, 98g:11004**
Ibrahim, Abd El-Hamid M. On multiply perfect numbers. (English summary)
— On the search for perfect numbers. (English summary)
Ibstedt, Henry Smarandache primitive numbers.
— The Smarandache pseudo function $Z(n)$.
— The Smarandache ceil function.
Johnson, Kenneth R. The Dirichlet inverse of Ramanujan's sum. **98f:11010**
Lin, Da Zheng (*with* Zhang, Ming Zhi) On the divisibility relation $n \mid (\varphi(n) + \sigma(n))$. (Chinese. English and Chinese summaries) **98d:11010**
Lucht, Lutz G. Arithmetical aspects of certain functional equations. (English summary) **98m:11005**
— Arithmetical sequences and systems of functional equations. (English summary) **98h:11007**
Popovici, Florin *see* **Bencze, Mihály; et al.**
Rădescu, E. (*with* Rădescu, N.) Some elementary algebraic considerations inspired by Smarandache type functions.
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Schwab, Emil Daniel Regular convolutions and A-additive arithmetical functions. (English summary) **98a:11010**
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Tabîrcă, Sabin (*with* Tabîrcă, Tatiana) Computational aspect of Smarandache's function. (English summary)
— (*with* Tabîrcă, Tatiana) Some upper bounds of Smarandache's function.
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Yan, Song Computing amicable numbers.
Zhang, Ming Zhi The Euler function equation $\varphi(x) = \varphi(y)$. (Chinese. English and Chinese summaries) **98c:11004**
— *see also* **Lin, Da Zheng, 98d:11010**

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Kovács, Katalin On a conjecture concerning additive arithmetical functions. II. (English summary) **98f:11104**
Pétermann, Y.-F. S. (*with* Wu, Jie[1]) On the sum of exponential divisors of an integer. **98m:11098**
Pinner, Christopher G. Repeated values of the divisor function. **98m:11099**
Tóth, László Asymptotic formulae concerning the product and the quotient of the arithmetical functions σ_s and φ_s. (English summary) **98k:11128**

Wu, Jie[1] *see* **Pétermann, Y.-F. S., 98m:11098**

11A41 Primes

Bălăcenoiu, Ion (*with* Seleacu, Vasile) Properties of the triplets p^*.
Bayat, M. A generalization of Wolstenholme's theorem. **98e:11007**
Breiteig, Trygve (*with* Kirfel, Christoph) Primes in recursive sequences. (Norwegian. English summary) **98h:11008**
Brown, Peter G. A note on Ramanujan's conjectures regarding "Mersenne's primes". **98m:11006**
Dence, Joseph B. (*with* Dence, Thomas P.) A necessary and sufficient condition for twin primes. **98g:11005**
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Kiss, Elemér A short proof of Fermat's two-square theorem given by János Bolyai. (English summary)
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— Are there functions that generate prime numbers? **98h:11009**
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Corrales-Rodrigáñez, Capi (*with* Schoof, René) The support problem and its elliptic analogue. (English summary) **98c:11049**
Huen, Y. K. The twin prime problem revisited. (English summary) **98m:11139**
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Sándor, Csaba On a problem of Erdős. **98b:11022**
Sato, Ken-ichi[1] (*with* Shirai, Susumu) On certain rational expressions whose prime divisors are cubic residues (mod p). **98g:11003**
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Schoof, René *see* **Corrales-Rodrigáñez, Capi, 98c:11049**
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Tenenbaum, Gérald (*with* Mendès France, Michel) ★ Les nombres premiers. (French) [Prime numbers] **98d:11105**

11A51 Factorization; primality

Björn, Anders (*with* Riesel, Hans) Factors of generalized Fermat numbers. (English summary) **98e:11008**
Borwein, Jonathan M. (*with* Wong, Erick Bryce) A survey of results relating to Giuga's conjecture on primality. (English summary) **98i:11005**
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Guillaume, D. (*with* Morain, F.) Building pseudoprimes with a large number of prime factors. (English summary) **98d:11011**
Křížek, Michal (*with* Chleboun, Jan) Is any composite Fermat number divisible by the factor $5h2^n + 1$? (English summary) **98j:11003**
Morain, F. *see* **Guillaume, D., 98d:11011**
Riesel, Hans *see* **Björn, Anders, 98e:11008**
Rödseth, Ö. J. A note on primality tests for $N = h \cdot 2^n - 1$. (English summary) **98h:11010**
Shiu, P. Involutions associated with sums of two squares. (English summary) **98c:11006**
Wong, Erick Bryce *see* **Borwein, Jonathan M., 98i:11005**
Zhu, Wen Yu Carmichael numbers that are strong pseudoprimes to some bases. (Chinese. English and Chinese summaries) **98g:11006**

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— The average least witness is 2. **98h:11118**
Chau, Hoi Fung (*with* Lo, H.-K.) Primality test via quantum factorization. (English summary) **98j:11120**
Clawson, Calvin C. ★ Mathematical mysteries. **98e:11001**
Dresel, L. A. G. On pseudoprimes related to generalized Lucas sequences. **98b:11010**
Erdős, Paul[1] (*with* Rosenfeld, Moshe) The factor-difference set of integers. **98e:11025**
Lo, H.-K. *see* **Chau, Hoi Fung, 98j:11120**
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11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15.}

Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Explicit evaluations of the Rogers-Ramanujan continued fraction. **98c:11007**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 98c:11007**
Cohn, Henry Symmetry and specializability in continued fractions. **98a:11012**
Elezović, Neven A note on continued fractions of quadratic irrationals. (English and Croatian summaries) **98h:11011**
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Huang, Sen-Shan Ramanujan's evaluations of Rogers-Ramanujan type continued fractions at primitive roots of unity. **98h:11012**
Khinchin, Aleksandr Yakovlevich ★ Continued fractions. (English summary) **98c:11008**
Kuchminskaya, Kh. I. On the "fork" property for two-dimensional continued fractions. (English summary)
Kupershmidt, B. A. On a sequence of continued fractions of Ramanujan and their q-analogs. **98e:11009**
de Spinadel, Vera W. On characterization of the onset to chaos. (English summary) **98g:11007**
Stambul, Pierre A generalization of Perron's theorem about Hurwitzian numbers. **98h:11013**
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Corless, Robert M. Continued fractions and chaos [MR 94g:58135]. (*see* **98f:00027**)
Cvijović, Djurdje (*with* Klinowski, Jacek) Continued-fraction expansions for the Riemann zeta function and polylogarithms. (English summary) **98a:11111**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Rogers-Ramanujan continued fraction and reciprocal sums of Fibonacci numbers. **98m:11078**
Flajolet, Philippe (*with* Vallée, Brigitte) Continued fraction algorithms, functional operators, and structure constants. (English summary) **98j:11061**
Kaplan, Pierre (*with* Mimura, Yoshio) Développement en fraction continue à l'entier supérieur, idéaux 0-réduits et un problème d'Eisenstein. [Highest-integer continued fraction expansion, 0-reduced ideals and a problem of Eisenstein] **98e:11125**
Klinowski, Jacek *see* **Cvijović, Djurdje, 98a:11111**
Laczkovich, Miklós On Lambert's proof of the irrationality of π. **98a:11090**
Lanford, O. E., III (*with* Ruedin, L.) Statistical mechanical methods and continued fractions. (English summary) **98b:11132**
Mimura, Yoshio *see* **Kaplan, Pierre, 98e:11125**
Nishioka, Keiji *see* **Duverney, Daniel; et al., 98m:11078**
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Randrianarivony, Arthur Fractions continues, q-nombres de Catalan et q-polynômes de Genocchi. (English summary) [Continued fractions, q-Catalan numbers and q-Genocchi polynomials] **98e:05007**
Ruedin, L. *see* **Lanford, O. E., III, 98b:11132**
Shiokawa, Iekata *see* **Duverney, Daniel; et al., 98m:11078**
Shiu, P. Involutions associated with sums of two squares. (English summary) **98c:11006**
Thakur, Dinesh S. Patterns of continued fractions for the analogues of e and related numbers in the function field case. (English summary) **98d:11145**
Vallée, Brigitte *see* **Flajolet, Philippe, 98j:11061**
Zhang, Xianke Ideal class groups and their subgroups of real quadratic fields. (English summary) **98j:11100**

11A63 Radix representation; digital problems {For metric results, see 11K16.}

Allouche, Jean-Paul A remark on Apéry's numbers. (English summary) **98m:11007**
Ardahan, H. Operations with the periodic decimal expansions. (English and Turkish summaries) **98k:11003**
Atanassov, Krassimir Todorov A modification of one Avanessov's problem. **98b:11005**
Borwein, Jonathan M. Brouwer-Heyting sequences converge.
Cooper, Curtis (*with* Kennedy, Robert E.) On the set of positive integers which are relatively prime to their digital sum and its complement. (English summary) **98m:11008**
Drmota, Michael (*with* Gajdosik, Johannes) The parity of the sum-of-digits-function of generalized Zeckendorf representations. **98m:11009**
Gajdosik, Johannes *see* **Drmota, Michael, 98m:11009**
Girstmair, Kurt Digit variance and Dedekind sums. (English summary) **98h:11014**
Kennedy, Robert E. *see* **Cooper, Curtis, 98m:11008**
Lindström, Bernt On the binary digits of a power. (English summary) **98e:11010**
Michalek, Gary E. Base three just touching covering systems. (English summary) **98i:11007**
Mudge, Michael R. Prime numbers in the decimal system.
Riede, Harald Asymptotic estimation of a sum of digits. **98k:11004**
Voss, James E. Divisibility tests in N.
Wang, Guan Min Conjugate self-reproducing numbers and derived self-reproducing numbers. (Chinese. Chinese summary) **98a:11013**

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Bruin, Henk (*with* Keller, Gerhard; St. Pierre, Matthias) Adding machines and wild attractors. (English summary) **98m:58083**
Hama, Masaki (*with* Imahashi, T.) Periodic β-expansions for certain classes of Pisot numbers. (English summary) **98m:11113**
Imahashi, T. *see* **Hama, Masaki, 98m:11113**
Kátai, Imre Research problems in number theory. II. **98m:11002**
Keller, Gerhard *see* **Bruin, Henk; et al., 98m:58083**
Long, Calvin (*with* Swenson, Carl) Necessary and sufficient conditions for simple $\mathfrak{A}$-bases. **98b:11007**
Okada, Tatsuya *see* **Shiota, Yasunobu; et al., 98h:11099**
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Sherstnev, V. I. Joint distribution of carries in integer addition. (Russian. Russian summary) **98e:11091**
Shiota, Yasunobu (*with* Sekiguchi, Takeshi; Okada, Tatsuya) Hata-Yamaguti's result on [the] Takagi function and its applications to digital sum problems. **98h:11099**
St. Pierre, Matthias *see* **Bruin, Henk; et al., 98m:58083**
Swenson, Carl *see* **Long, Calvin, 98b:11007**
Thuswaldner, Jörg M. The sum of digits function in number fields. (English summary) **98i:11088**
Wilson, Brad Construction of $2 * n$ consecutive n-Niven numbers. **98g:11020**

11A67 Other representations

Boros, Zoltán Representation of vectors in generalized number systems. **98h:11015**
Butler, Jon T. (*with* Sasao, Tsutomu) On the proportion of digits in redundant numeration systems. **98e:11011**
Sasao, Tsutomu *see* **Butler, Jon T., 98e:11011**

Items with secondary classifications in 11A67

Agoh, Takashi Additive representations of integers. (English summary) **98m:11106**
Bruyère, Véronique (*with* Hansel, Georges) Bertrand numeration systems and recognizability. (English summary) **98i:68149**
Francis, Richard L. Probable prime predicaments. (English summary) **98g:11024**
Hansel, Georges *see* **Bruyère, Véronique, 98i:68149**
Joó, Istvan (*with* Schnitzer, Franz J.) ★ Expansions with respect to non-integer bases. **98e:11090**
Madić, Jovan *see* **Stanković, Miomir S.; et al., 98m:11141**
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Stanimirović, Predrag S. *see* **Stanković, Miomir S.; et al., 98m:11141**
Stanković, Miomir S. (*with* Madić, Jovan; Stanimirović, Predrag S.) Addition, subtraction and multiplication of sequences of fractions by means of residue arithmetic and mathematical spectra. (English summary) **98m:11141**

11A99 None of the above, but in this section

Mollin, R. A. Masser's conjecture used to verify the Erdös-Mollin-Walsh conjecture of powerful numbers as well as conjectures on pure powers and Fibonacci numbers. (English summary) **98a:11014**
Vaidya, A. M. The variety of techniques in classical number theory.

Items with secondary classifications in 11A99

Bencze, Mihály (*with* Popovici, Florin; Smarandache, Florentin) Inequalities for the integer part function.
Popovici, Florin *see* **Bencze, Mihály; et al.**
Smarandache, Florentin *see* **Bencze, Mihály; et al.**

11Bxx Sequences and sets

Nathanson, Melvyn B. ★ Additive number theory. (English summary) **98f:11011**

11B05 Density, gaps, topology

Ahlswede, Rudolf (*with* Khachatryan, L. G.) Number-theoretic correlation inequalities for Dirichlet densities. (English summary) **98g:11008**
Bukor, Jozef (*with* Šalát, Tibor; Tóth, János T.) Remarks on R-density of sets of numbers. (English summary) **98e:11012**
Hall, Richard R. ★ Sets of multiples. (English summary) **98d:11012**
Khachatryan, L. G. *see* **Ahlswede, Rudolf, 98g:11008**
Morikawa, Ryozo On eventually covering families generated by the bracket function. V. **98b:11006**
Nymann, J. E. (*with* Sáenz, Ricardo A.) The topological structure of the set of P-sums of a sequence. (English summary) **98d:11013**
Paštéka, Milan The measure density on Dedekind domains. (English summary) **98g:11009**
Sáenz, Ricardo A. *see* **Nymann, J. E., 98d:11013**
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Sárközy, András On divisibility properties of sequences of integers. **98c:11009**
Tóth, János T. *see* **Bukor, Jozef; et al., 98e:11012**

Items with secondary classifications in 11B05

Bilu, Yuri F. Addition of sets of integers of positive density. (English summary) **98e:11013**
Bollobás, Béla (*with* Hegyvári, Norbert; Jin, Guoping) On a problem of Erdős and Graham. (English summary) **98h:11016**
Cooper, Curtis (*with* Kennedy, Robert E.) On the set of positive integers which are relatively prime to their digital sum and its complement. (English summary) **98m:11008**
Hegyvári, Norbert Subset sums in $\mathbf{N}^2$. (English summary) **98a:11016**
— *see also* **Bollobás, Béla; et al., 98h:11016**
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11B37 Recurrences {For applications to special functions, see 33–XX.}

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— *see also* **Georgiev, Peter G., 98a:11019**; **98a:11020** *and* **98a:11021**
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— *see also* **Horadam, Alwyn F., 98j:11006** *and* **Elia, Michele**
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11B65 Binomial coefficients; factorials; q-identities [see also 05A10, 05A30]

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Zhao, Feng Zhen (*with* Niu, Feng Wen) New proofs of two Rogers-Ramanujan identities. (Chinese. English and Chinese summaries) **98f:11021**

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Agarwal, R. R. (*with* Singh, V. N.) On the summation of certain double series. **98f:33031**
Andrews, George E. (*with* Roy, Ranjan) Ramanujan's method in q-series congruences. (English summary) **98f:11110**
Berkovich, Alexander (*with* McCoy, Barry M.) Generalizations of the Andrews-Bressoud identities for the $N = 1$ superconformal model $SM(2, 4\nu)$. (English summary) **98k:11142**
Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Explicit evaluations of the Rogers-Ramanujan continued fraction. **98c:11007**
Bhargava, Srinivasamurthy (*with* Adiga, Chandrashekar) A basic bilateral series summation formula and its applications. (English summary) **98f:33032**
— A simple proof of the quintuple product identity. (English summary) **98e:33007**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 98c:11007**
Cooper, Shaun A new proof of the Macdonald identities for A_{n-1}. (English summary) **98g:05019**
Klostermeyer, William F. (*with* Mays, Michael E.; Šoltés, Ľubomír; Trapp, George) A Pascal rhombus. **98m:11011**
Kupershmidt, B. A. On a sequence of continued fractions of Ramanujan and their q-analogs. **98e:11009**
Mays, Michael E. *see* **Klostermeyer, William F.; et al., 98m:11011**
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Randrianarivony, Arthur Fractions continues, q-nombres de Catalan et q-polynômes de Genocchi. (English summary) [Continued fractions, q-Catalan numbers and q-Genocchi polynomials] **98e:05007**
Rawlings, Don Absorption processes: models for q-identities. (English summary) **98b:05010**
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Roy, Ranjan *see* **Andrews, George E., 98f:11110**
Sagan, Bruce E. (*with* Zhang, Ping[6]) Arithmetic properties of generalized Euler numbers. (English summary) **98h:11025**
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Warnaar, S. Ole The Andrews-Gordon identities and q-multinomial coefficients. (English summary) **98m:11108**
Woan, Wen-Jin (*with* Shapiro, Lou; Rogers, Douglas G.) The Catalan numbers, the Lebesgue integral, and 4^{n-2}. **98k:05008**
Zhang, Liang-Cheng *see* **Berndt, Bruce C.; et al., 98c:11007**
Zhang, Ping[6] *see* **Sagan, Bruce E., 98h:11025**

11B68 Bernoulli and Euler numbers and polynomials

Adelberg, Arnold Erratum: "Congruences of p-adic integer order Bernoulli numbers" [J. Number Theory **59** (1996), no. 2, 374–388; MR 97e:11028].
Dence, Joseph B. A development of Euler numbers. **98h:11023**
Eie, M. (*with* Ong, Y. L.) A generalization of Kummer's congruences. (English summary) **98h:11024**
Granville, Andrew (*with* Sun, Zhi Wei[1]) Values of Bernoulli polynomials. (English summary) **98b:11018**
Hauss, Michael An Euler-Maclaurin-type formula involving conjugate Bernoulli polynomials and an application to $\zeta(2m+1)$. (English summary) **98b:11019**
Hernando Pérez, Jesús Natural power sums of natural numbers. (Spanish. English summary) **98c:11017**
Howard, F. T. Sums of powers of integers via generating functions. **98a:11025**
Kaneko, Masanobu Poly-Bernoulli numbers. (English and French summaries) **98k:11013**
Kim, Han Soo (*with* Kim, Taekyun) Some congruences for Bernoulli numbers. II. **98g:11018**
Kim, Taekyun *see* **Kim, Han Soo, 98g:11018**
Mishra, S. S. *see* **Singh, Surya Narain, 98e:11022**
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Sagan, Bruce E. (*with* Zhang, Ping[6]) Arithmetic properties of generalized Euler numbers. (English summary) **98h:11025**
Singh, Surya Narain (*with* Mishra, S. S.) On the extension of Bernoulli, Euler and Eulerian polynomials. (English summary) **98e:11022**
Sun, Zhi Wei[1] *see* **Granville, Andrew, 98b:11018**
Wilsdon, Colin Using Maple to investigate Bernoulli numbers. (English summary)
Woon, S. C. A tree for generating Bernoulli numbers. **98a:11026**
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Yang, Bi Cheng (*with* Wu, Kang) Some formulas for evaluating sums of powers of the first n terms of an arithmetic progression. (Chinese. English and Chinese summaries) **98b:11020**
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Zhang, Wen Peng Some identities involving the Euler and the central factorial numbers.

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Agoh, Takashi (*with* Mori, Kenichi[2]) Kummer type system of congruences and bases of Stickelberger subideals. (English summary) **98h:11132**
— (*with* Dilcher, Karl; Skula, Ladislav) Fermat quotients for composite moduli. (English summary) **98h:11002**
— Stickelberger subideals for a prime modulus related to Kummer-type congruences. (English summary) **98k:11171**
— (*with* Dilcher, Karl; Skula, Ladislav) Wilson quotients for composite moduli. (English summary) **98h:11003**
Byrne, Graeme J. (*with* Smith, Simon J.) Some integer-valued trigonometric sums. (English summary) **98k:33001**
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Dilcher, Karl *see* **Agoh, Takashi; et al., 98h:11002** *and* **98h:11003**
Hu, Ting Feng *see* **Zhang, Zhi Zheng, 98e:11020**
Jakubec, Stanislav Connection between congruences $n^{q-1} \equiv 1 \pmod{q^2}$ and divisibility of h^+. **98a:11145**
Konvalina, John The combinatorics of discrete self-similarity. **98j:05010**
Lawrence, Ruth J. Asymptotic expansions of Witten-Reshetikhin-Turaev invariants for some simple 3-manifolds [MR 97a:57015]. (English summary) (*see* **98c:00015**)
Mori, Kenichi[2] *see* **Agoh, Takashi, 98h:11132**
Poupard, Christiane Two other interpretations of the Entringer numbers. (English summary) **98k:05007**
Šami, Zoran N. On a sequence of polynomials. (English summary) **98h:11028**
— Sequence $a_{j,n}^m$ and Bernoulli numbers. (English summary) **98h:11029**
Shaji, Krishnan Generation of Bernoulli numbers.
Skula, Ladislav Inclusion among special Stickelberger subideals. (English summary) **98m:11126**
— *see also* **Agoh, Takashi; et al., 98h:11002** *and* **98h:11003**
Smith, Simon J. *see* **Byrne, Graeme J., 98k:33001**
Williams, Kenneth S. Bernoulli's identity without calculus. **98c:05015**
Zhang, Zhi Zheng (*with* Hu, Ting Feng) Some properties of generalized Fibonacci and Lucas sequences. (Chinese. English and Chinese summaries) **98e:11020**

11B73 Bell and Stirling numbers

Cakić, Nenad P. A note on Stirling numbers of the second kind.
Constantineau, Ivan (*with* Labelle, Gilbert) Une généralisation automorphe des nombres de Stirling. (English and French summaries) [An automorphic generalization of the Stirling numbers] **98e:11023**
Hsu, Leetsch Charles (*with* Yu, Hong Quan) A unified approach to a class of Stirling-type pairs. (English summary) **98e:11024**
— On a kind of generalized arithmetic-geometric progression. **98c:11018**
— (*with* Mullen, Gary L.; Shiue, Peter Jau-Shyong) Dickson-Stirling numbers. (English summary) **98i:11011**
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Adelberg, Arnold Erratum: "Congruences of p-adic integer order Bernoulli numbers" [J. Number Theory **59** (1996), no. 2, 374–388; MR 97e:11028].
Balakrishnan, Narayanaswamy (*with* Nevzorov, V. B.) Stirling numbers and records. (English summary) **98h:60070**
Gertsch, Anne Nombres harmoniques généralisés. (English and French summaries) [Generalized harmonic numbers] **98a:11007**
Holte, John M. Carries, combinatorics, and an amazing matrix. **98g:15034**
Konvalina, John The combinatorics of discrete self-similarity. **98j:05010**
Lambert, Francois (*with* Springael, Johan) Construction of Bäcklund transformations with binary Bell polynomials. (English summary)
Li, Chaoying *see* **Yu, Hong Quan; et al.**
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Wang, Yi *see* **Yu, Hong Quan; et al.**
Wyss, Roland Identitäten bei den Stirling-Zahlen 2. Art aus kombinatorischen Überlegungen beim Würfelspiel. (German summary) [Identities for Stirling numbers of the second kind from combinatorial considerations in a game of dice] **98d:05007**
Yu, Hong Quan (*with* Wang, Yi; Li, Chaoying) On congruence properties of Stirling-type pairs. (English and Chinese summaries)

11B75 Other combinatorial number theory

Berend, Daniel On the parity of exponents in the factorization of $n!$. (English summary) **98g:11019**
Bernstein, Daniel J. (*with* Lagarias, Jeffrey C.) The $3x + 1$ conjugacy map. (English summary) **98a:11027**
Bohman, Tom A construction for sets of integers with distinct subset sums. (English summary) **98k:11014**
Chen, Yong-Gao On addition of two sets of integers. **98b:11021**
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Elekes, György On the number of sums and products. **98h:11026**
Erdős, Paul[1] (*with* Rosenfeld, Moshe) The factor-difference set of integers. **98e:11025**
— (*with* Sarkozy, Gabor N.) On cycles in the coprime graph of integers. (English summary) **98d:11022**
Hollmann, Henk D. L. (*with* van Lint, Jacobus Hendricus) Universal sequences. (English summary) **98j:11010**
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Lindström, Bernt Finding finite B_2-sequences faster. (English summary) **98m:11012**
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Maltby, Roy Pure product polynomials and the Prouhet-Tarry-Escott problem. (English summary) **98e:11026**
— Bigger and better subset-sum-distinct sets. (English summary) **98i:11012**
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Wilson, Brad Construction of $2 * n$ consecutive n-Niven numbers. **98g:11020**

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Adhikari, Sukumar Das A note on a question of Erdős. **98k:05138**
Bollobás, Béla (*with* Hegyvári, Norbert; Jin, Guoping) On a problem of Erdős and Graham. (English summary) **98h:11016**
Calkin, Neil J. (*with* Finch, Steven R.) Conditions on periodicity for sum-free sets. (English summary) **98c:11010**
— (*with* Thomson, Jan McDonald) Counting generalized sum-free sets. (English summary) **98m:11010**
Chen, Wen De (*with* Kløve, Torleiv) Disjoint sets of distinct sum sets. (English summary) **98h:11017**
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Jin, Guoping *see* **Bollobás, Béla; et al., 98h:11016**
Joshi, D. G. A summation formula for $\sum_{r=1}^{n} r^k$. **98g:11017**
Klazar, Martin Combinatorial aspects of Davenport-Schinzel sequences. (English summary) **98d:05149**
Kløve, Torleiv *see* **Chen, Wen De, 98h:11017**
Lindström, Bernt An Erdős problem studied with the assistance of a computer. (Swedish. English summary) **98m:11140**
Michalek, Gary E. Base three just touching covering systems. (English summary) **98i:11007**
Sun, Zhi Wei[1] Exact m-covers and the linear form $\sum_{s=1}^{k} x_s/n_s$. **98h:11019**
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Barbeau, Edward J. (*with* Chew, John; Tanny, Stephen) A matrix dynamics approach to Golomb's recursion. (English summary) **98k:11016**
Bezivin, Jean-Paul Sur les suites récurrentes à coefficients polynômes. (English summary) [Recurrent sequences with polynomial coefficients] **98h:11027**
Callan, David When does $m - n$ divide $f(m) - f(n)$? A look at column-finite matrices. **98j:11011**
Chew, John *see* **Barbeau, Edward J.; et al., 98k:11016**
Cofman, Judita Catalan numbers for the classroom? (German summary) **98g:11021**
Cojocaru, Ion (*with* Cojocaru, Sorin) On a function in the numbers theory. (English summary)
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Filipponi, Piero A curious problem involving geometric series. **98g:11023**
Francis, Richard L. Probable prime predicaments. (English summary) **98g:11024**
González-Barrios, José M. (*with* Trejo Valdivia, Belem) An extension on Stetchkin's condition. (English summary) **98c:11019**
Haggard, P. W. Discovering relationships and patterns by exploring pentagonal and generalized pentagonal numbers. (English summary) **98j:11012**
Halbeisen, Lorenz (*with* Hungerbühler, Norbert) Optimal bounds for the length of rational Collatz cycles. **98g:11025**
Haukkanen, Pentti A note on the bracket function transform. **98c:11020**
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Ibstedt, Henry A few Smarandache integer sequences. (English summary)
Kimberling, Clark Palindromic sequences from irrational numbers.
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Pétermann, Y.-F. S. On Golomb's self-describing sequence. II. **98a:11029**
Popa, Emil C. Note on Sheffer polynomials.
Qiu, Wei Xing Observations on the "$3x + 1$" problem. (Chinese. English and Chinese summaries)
Risteski, Ice B. *see* **Trenčevski, Kostadin G., 98k:11017**
Šami, Zoran N. On a sequence of polynomials. (English summary) **98h:11028**
— Sequence $a_{j,n}^m$ and Bernoulli numbers. (English summary) **98h:11029**
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Schöffl, Gerd Ducci-processes of 4-tuples. **98d:11024**
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Trenčevski, Kostadin G. (*with* Risteski, Ice B.) Two solutions of one problem of B. S. Popov. **98k:11017**
Venturini, G. On a generalization of the $3x + 1$ problem. (English summary) **98j:11013**
Widmer, Lamarr Construction of elements of the Smarandache square-partial-digital subsequence.
Wu, Wen Ling (*with* Xiao, Guo Zhen[1]) Stability of maximal length sequences. (Chinese. English and Chinese summaries)
Xiao, Guo Zhen[1] *see* **Wu, Wen Ling**
Xie, Ting Fan (*with* Zhou, Song Ping) On a sequence of Witt vectors. (English and Chinese summaries) **98f:11023**
Yan, Hua Xiang An N-complementarity theorem for numerical sequences. (Chinese)
Zhou, Chuan Zhong Some recurrence relations connected with the $3x + 1$ conjecture. (Chinese. English and Chinese summaries)

Zhou, Song Ping *see* **Xie, Ting Fan, 98f:11023**

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Arasu, K. T. (*with* Ma, Siu Lun; Voss, N. J.) On a class of almost perfect sequences. (English summary) **98k:05026**
Barg, A. M. Two families of low-correlated binary sequences. (English summary)
Bernstein, Daniel J. (*with* Lagarias, Jeffrey C.) The $3x + 1$ conjugacy map. (English summary) **98a:11027**
Brillhart, John (*with* Morton, Patrick) A case study in mathematical research: the Golay-Rudin-Shapiro sequence. **98g:01048**
Erdős, Paul[1] (*with* Joó, Istvan; Schnitzer, Franz J.) On Pisot numbers. **98d:11127**
Ferenczi, Sébastien (*with* Mauduit, Christian) Transcendence of numbers with a low complexity expansion. (English summary) **98m:11079**
von zur Gathen, Joachim (*with* Roche, James R.) Polynomials with two values. (English summary) **98k:11123**
Horadam, Alwyn F. Negative subscript Jacobsthal numbers. **98f:11013**
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Kimberling, Clark Fractal sequences and interspersions. **98d:11023**
Klazar, Martin Combinatorial aspects of Davenport-Schinzel sequences. (English summary) **98d:05149**
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Mauduit, Christian *see* **Ferenczi, Sébastien, 98m:11079**
Milnes, Paul (*with* Stanley-Albarda, C.) Multiplicative polynomials and Fermat's little theorem for non-primes. (English summary) **98d:11007**
Morton, Patrick *see* **Brillhart, John, 98g:01048**
Popov, Blagoj S. Summation of reciprocal series of a class of polynomials. (English and Macedonian summaries) **98d:11020**
Raina, R. K. (*with* Srivastava, Hari M.) A class of numbers associated with the Lucas numbers. (English summary) **98k:11009**
Rémy, Jean-Luc Sur la suite autodécrite de Golomb. (French summary) [On Golomb's self-describing sequence] **98i:11077**
Roche, James R. *see* **von zur Gathen, Joachim, 98k:11123**
Ruzsa, Imre Z. A converse to a theorem of Erdős and Fuchs. **98m:11085**
Šami, Zoran N. A sequence $u_{n,m}$ and Kurepa's hypothesis on left factorial. (English summary) **98b:11016**
Schnitzer, Franz J. *see* **Erdős, Paul[1]; et al., 98d:11127**
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11B85 Automata sequences

Allouche, Jean-Paul (*with* Cateland, E.; Peitgen, Heinz-Otto; Skordev, Gencho; Shallit, Jeffrey O.) Automatic maps on a semiring with digits. (English summary) **98e:11027**
— (*with* Berthé, Valérie) Triangle de Pascal, complexité et automates. [Pascal's triangle, complexity and automata] **98a:11030**
Astola, Jaakko *see* **Egiazaryan, K. O., 98h:11030**
Bercoff, Christiane Uniform tag systems for paperfolding sequences. (English summary) **98j:11014**
Berthé, Valérie *see* **Allouche, Jean-Paul, 98a:11030**
Blanchard, François (*with* Host, B.; Maass, Alejandro) Représentation par automate de fonctions continues du tore. (French summary) [Representation by automata of continuous functions of the torus] **98d:11025**
Borel, Jean-Pierre Opérations sur les mots de Christoffel. (English and French summaries) [Computation on Christoffel words] **98k:11018**
Cateland, E. *see* **Allouche, Jean-Paul; et al., 98e:11027**
Dekking, F. M. Random and automatic walks. **98d:11026**
— (*with* Wen, Zhi Ying) Boundedness of oriented walks generated by substitutions. (English and French summaries) **98g:11026**
Durand, Fabien A generalization of Cobham's thoerem. (English summary) **98k:11019**
Egiazaryan, K. O. (*with* Astola, Jaakko) On generalized Fibonacci cubes and unitary transforms. (English summary) **98h:11030**
Hörnquist, Michael Block variables for deterministic aperiodic sequences. (English summary) **98k:11020**
Host, B. *see* **Blanchard, François; et al., 98d:11025**
Komatsu, Takao[2] (*with* van der Poorten, Alfred J.) Substitution invariant Beatty sequences. **98a:11031**
Kurths, Jürgen *see* **Zaks, Mikhail A.; et al., 98k:11021**
Lange, Ehler Cellular automata, substitutions and factorization of polynomials over finite fields. **98e:11028**
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Mauduit, Christian Propriétés arithmétiques des substitutions. [Arithmetical properties of substitutions] **98i:11014**
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Skordev, Gencho *see* **Allouche, Jean-Paul; et al., 98e:11027**
Wen, Zhi Ying Singular words, invertible substitutions and local isomorphisms. **98g:11027**
— *see also* **Dekking, F. M., 98g:11026**
Yao, Jia-yan Critères de non-automaticité et leurs applications. [Nonautomaticity criteria and their applications] **98g:11028**
Zaks, Mikhail A. (*with* Pikovskiĭ, A. S.; Kurths, Jürgen) On the correlation dimension of the spectral measure for the Thue-Morse sequence. (English summary) **98k:11021**

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Allouche, Jean-Paul (*with* Cateland, E.; Gilbert, W. J.; Peitgen, Heinz-Otto; Shallit, Jeffrey O.; Skordev, Gencho) Automatic maps in exotic numeration systems. (English summary) **98a:68114**
Barbé, André M. Coarse-graining invariant orbits of one-dimensional Z_p-linear cellular automata. (English summary) **98c:58081**
Bercoff, Christiane A family of p-uniform tag systems for p-paperfolding sequences. (English summary) (*see* **98d:68015**)
Berstel, Jean Recent results in Sturmian words. (English summary) (*see* **98d:68015**)
Bruyère, Véronique (*with* Hansel, Georges) Bertrand numeration systems and recognizability. (English summary) **98i:68149**
Bugeaud, Yann On a property of Pisot numbers and related questions. **98c:11113**
Cassaigne, Julien Complexité et facteurs spéciaux. (English and French summaries) [Complexity and special factors] **98c:68176**
— (*with* Karhumäki, Juhani) Toeplitz words, generalized periodicity and periodically iterated morphisms. (English summary) **98g:68131**
Cateland, E. *see* **Allouche, Jean-Paul; et al., 98a:68114**
Černý, Anton On sequences resulting from iteration of modified quadratic and palindromic mappings. (English summary) **98k:68140**
Fraenkel, Aviezri S. (*with* Simpson, R. Jamie) How many squares can a string contain? (English summary) **98m:68221**
Frougny, Christiane On the successor function in non-classical numeration systems. (English summary) **98e:68138**
Garel, E. Séparateurs dans les mots infinis engendrés par morphismes. (English and French summaries) [Separators in infinite words generated by morphisms] **98g:68132**
Gilbert, W. J. *see* **Allouche, Jean-Paul; et al., 98a:68114**
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Korec, Ivan Generalized Pascal triangles: overview of new results. **98a:68138**
Korotkikh, V. V. ★ Integer code series with some applications in dynamical systems and complexity. (English summary) **98k:58080**
Lang, Wolfdieter The measure of the orthogonal polynomials related to Fibonacci chains: the periodic case. (English summary) **98b:82027a**
— Corrigenda: "The measure of the orthogonal polynomials related to Fibonacci chains: the periodic case". **98b:82027b**
de Luca, Aldo On standard Sturmian morphisms. (English summary) **98f:68225**
— Sturmian words: new combinatorial results. (English summary) **98h:68185**
Mendès France, Michel Almost-periodic sequences and pseudo-random sequences. (English summary) **98e:11097**
Peitgen, Heinz-Otto *see* **Allouche, Jean-Paul; et al., 98a:68114**
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Shen, Chuan Long (*with* Huang, Yun Bao) Some properties of C^∞-words with applications. **98c:68178**
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Sirvent, Víctor F. On some dynamical subsets of the Rauzy fractal. (English summary) **98d:58096**
Skordev, Gencho *see* **Allouche, Jean-Paul; et al., 98a:68114**
Thakur, Dinesh S. Automata and transcendence. **98k:11105**
Voorhees, Burton H. ★ Computational analysis of one-dimensional cellular automata. **98m:58074**
Yao, Jia-yan Généralisations de la suite de Thue-Morse. (English and French summaries) [Generalizations of the Thue-Morse sequence] **98k:11108**

11B99 None of the above, but in this section

Items with secondary classifications in 11B99

Kovács, Katalin On a characterization of abelian groups by sums and differences.
Protasov, I. V. Absolute decomposability of the group of rational numbers. (Russian. English and Ukrainian summaries) **98g:54089**
Zhai, Wen Guang On a multiplicative hybrid problem. II. (Chinese. English and Chinese summaries) **98a:11108**

11Cxx Polynomials and matrices

11C08 Polynomials [see also 13F20]

Beukers, Frits On a sequence of polynomials. (English summary) **98e:11029**
Blackburn, Simon R. Orthogonal sequences of polynomials over arbitrary fields. (English summary) **98m:11013**
Borwein, P. B. (*with* Pinner, Christopher G.) Polynomials with $\{0, +1, -1\}$ coefficients and a root close to a given point. (English summary) **98m:11014**
Boyd, David W. On a problem of Byrnes concerning polynomials with restricted coefficients. (English summary) **98a:11033**
Dearden, Bruce (*with* Metzger, Jerry) Roots of polynomials modulo prime powers. (English summary) **98d:11027**
Filaseta, Michael (*with* Solan, Ikhalfani) Norms of factors of polynomials. **98k:11022**
Hellegouarch, Yves Analogues en caractéristique p d'un théorème de Mason. (English and French summaries) [Two p-analogues for a theorem of Mason] **98k:11023**
Langevin, Michel Quelques remarques sur les familles canoniques de polynômes générateurs pour l'exponentielle. (English and French summaries) [Some remarks on canonical families of polynomial generators for the exponential] **98d:11028**
Liu, Kai Di *see* **Mo, Guo Duan**
Mathiak, Karl Nullstellenzahlen von Polynomfunktionen auf Restklassenringen. (English summary) [Number of zeros of polynomial functions on residue class rings] **98h:11031**
Metzger, Jerry *see* **Dearden, Bruce, 98d:11027**

Mo, Guo Duan (*with* Liu, Kai Di) A new result of transformation formulae for Dirichlet polynomials. (English and Chinese summaries)
Müller, Peter[1] Kronecker conjugacy of polynomials. (English summary) **98h:11032**
Necer, Abdelkader Quotient de Hadamard en plusieurs variables. (English summary) [Hadamard quotients in several variables] **98k:11024**
Pinner, Christopher G. *see* **Borwein, P. B., 98m:11014**
Solan, Ikhalfani *see* **Filaseta, Michael, 98k:11022**

Items with secondary classifications in 11C08

Brindza, B. (*with* Pintér, Ákos) On the irreducibility of some polynomials in two variables. **98j:11019**
Dimitrov, Dimitar K. A problem of Pólya concerning polynomials which obey Descartes' rule of signs. (English summary) **98d:41007**
Ferguson, Ronald Irreducible polynomials with many roots of equal modulus. **98f:11114**
Flammang, V. Inégalités sur la mesure de Mahler d'un polynôme. (English and French summaries) [Inequalities for the Mahler measure of a polynomial] **98d:11128**
Han, Qing[2] The Poincaré series of a class of diagonal forms. (Chinese. English and Chinese summaries) **98h:11041**
Haukkanen, Pentti *see* **Tóth, László, 98g:11004**
Helou, Charles Cauchy-Mirimanoff polynomials. (French summary) **98k:11147**
Kollár, János Polynomials with integral coefficients, equivalent to a given polynomial. (English summary) **98g:11076**
Pintér, Ákos *see* **Brindza, B., 98j:11019**
Tóth, László (*with* Haukkanen, Pentti) A generalization of Euler's φ-function with respect to a set of polynomials. **98g:11004**
Waterhouse, William C. On the ranks of skew centrosymmetric matrices over finite fields. (English summary) **98m:15028**
Yudin, Vladimir Aleksandrovich Two extremal problems for trigonometric polynomials. (Russian. Russian summary) **98c:42001**

11C20 Matrices, determinants [see also 15A36]

Calvillo Vives, Gilberto (*with* Gitler, Isidoro; Martínez-Bernal, José) Intercalate matrices. I. Recognition of dyadic type. (English summary) **98d:11029**
Giesbrecht, Mark Probabilistic computation of the Smith normal form of a sparse integer matrix. (English summary) **98c:11021**
Gitler, Isidoro *see* **Calvillo Vives, Gilberto; et al., 98d:11029**
Haukkanen, Pentti On meet matrices on posets. (English summary) **98f:11024**
— (*with* Sillanpää, Juha) On some analogues of the Bourque-Ligh conjecture on LCM matrices. (English summary) **98k:11025**
Hong, Shao Fang LCM matrix on an r-fold GCD-closed set. (English and Chinese summaries) **98d:11030**
Krattenthaler, Christian (*with* Zeilberger, Doron) Proof of a determinant evaluation conjectured by Bombieri, Hunt and van der Poorten. (English summary) **98m:11015**
Martínez-Bernal, José *see* **Calvillo Vives, Gilberto; et al., 98d:11029**
Nan, Ji Zhu *see* **You, Hong, 98a:11034**
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Wang, Xiaohong On the Waring problem for infinite matrices. (English summary) **98d:11031**
You, Hong (*with* Nan, Ji Zhu) Some Anzahl theorems in vector space over $\mathbf{Z}/p^k\mathbf{Z}$. (English summary) **98a:11034**
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Boros, Zoltán Representation of vectors in generalized number systems. **98h:11015**
Botha, J. D. Triangularizing matrices over GF(2) by congruence. (English summary) **98c:15080**
Callan, David When does $m - n$ divide $f(m) - f(n)$? A look at column-finite matrices. **98j:11011**
Filipponi, Piero A family of 4-by-4 Fibonacci matrices. **98j:11005**
ten Have, G. N. (*with* Tijdeman, R.) Diophantine approximation of matrices. (English summary) **98c:11066**
Hou, Yao Ping The determinants of greatest common divisor matrices. (Chinese. English and Chinese summaries) **98a:15012**
Tijdeman, R. *see* **ten Have, G. N., 98c:11066**

11Dxx Diophantine equations [see also 11Gxx, 14Gxx]

Bashmakova, I. G. ★ Diophantus and Diophantine equations. (English summary) **98g:11029**
(Shenitzer, Abe) *see* **Bashmakova, I. G., 98g:11029**
(Silverman, Joseph) *see* **Bashmakova, I. G., 98g:11029**

11D04 Linear equations

Freiman, Gregory On solvability of a system of two Boolean linear equations. (English summary) **98b:11023**
Ritter, Stefan Matthias The linear Diophantine problem of Frobenius for subsets of arithmetic sequences. (English summary) **98d:11032**

Items with secondary classifications in 11D04

Djawadi, Mehdi (*with* Hofmeister, Gerd) Linear Diophantine problems. **98e:11044**
Hofmeister, Gerd *see* **Djawadi, Mehdi, 98e:11044**
Lev, Vsevolod F. Addendum to: "Structure theorem for multiple addition and the Frobenius problem" [J. Number Theory **58** (1996), no. 1, 79–88; MR 97d:11056]. (English summary) **98e:11045**
Shen, Jian[2] Some estimated formulas for the Frobenius numbers. (English summary) **98e:11046**

11D09 Quadratic and bilinear equations

Beauregard, Raymond A. (*with* Suryanarayan, E. R.) Arithmetic triangles. **98d:11033**
Bennett, Michael A. Solving families of simultaneous Pell equations. (English summary) **98j:11015**
Cao, Zhen Fu (*with* Zhao, Dong Bin) The Diophantine equation $y^2 = ax^4 + bx^3 + cx^2 + dx + e$. (Chinese. English and Chinese summaries)
Chen, Zhi Yan The Diophantine system of equations $5x^2 - 3y^2 = 2$, $16y^2 - 5z^2 = 11$. (Chinese. English and Chinese summaries) **98b:11024**
— Upper bounds for positive integer solutions of the indeterminate equations $x^2 - 7y^2 = 2$, $z^2 - 32y^2 = -23$. (Chinese. English and Chinese summaries) **98m:11016**
Cheng, Yungchen On Diophantine equations $x^2 - dy^2 = AB$. **98d:11034**
Dujella, Andrej Some polynomial formulas for Diophantine quadruples. **98g:11030**
— The problem of Diophantus and Davenport for Gaussian integers. (English summary) **98k:11033**
Grytczuk, Aleksander Note on a Pythagorean ring. (English summary) **98c:11022**
Hong, Jin (*with* Jeong, Kyeonghoon; Kwon, Jae-Hoon) Integral points on hyperbolas. **98e:11030**
Jeong, Kyeonghoon *see* **Hong, Jin; et al., 98e:11030**
Kwon, Jae-Hoon *see* **Hong, Jin; et al., 98e:11030**
Le, Mao Hua A note on positive integer solutions of the equation $xy + yz + zx = n$. (English summary) **98j:11016**
Masser, D. W. (*with* Rickert, J. H.) Simultaneous Pell equations. **98c:11023**
— How to solve a quadratic equation in rationals. **98m:11017**
Mollin, R. A. Polynomial solutions for Pell's equation revisited. (English summary) **98b:11025**
Pombo, Dinamérico P., Jr. A convolution formula for certain Diophantine equations. (English summary) **98d:11035**
Rangamma, M. (*with* Srinivasa Rao, B.) On solutions of some Diophantine equations. (English summary) **98a:11035**
Rickert, J. H. *see* **Masser, D. W., 98c:11023**
Sándor, József A note on primitive Pythagorean triangles.
Singh, Madan Mohan The Diophantine equation $x^2 + 2xy - 3y^2 = 3z^2$ and its consequence.
— Solution of $Ax^2 + B = y^2$ and applications.
Srinivasa Rao, B. *see* **Rangamma, M., 98a:11035**
Suryanarayan, E. R. *see* **Beauregard, Raymond A., 98d:11033**
Swamy, M. N. S. Brahmagupta's theorems and recurrence relations.
Veschambre, Philippe Trois triangles, quatre carrés. ... [Three triangles, four squares...] **98d:11036**
Walsh, P. G. On integer solutions to $x^2 - dy^2 = 1$, $z^2 - 2dy^2 = 1$. **98e:11031**
Yuan, Ping Zhi A conjecture concerning the Pell equation. (Chinese. Chinese summary) **98a:11036**
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Items with secondary classifications in 11D09

Barbeau, Edward J. ★ Power play. (English summary) **98d:11001**
Bowman, Harold *see* **Lu, Hong Wen; et al., 98h:05050**
Kaplan, Pierre (*with* Mimura, Yoshio) Développement en fraction continue à l'entier supérieur, idéaux 0-réduits et un problème d'Eisenstein. [Highest-integer continued fraction expansion, 0-reduced ideals and a problem of Eisenstein] **98e:11125**
Kedlaya, Kiran S. Solving constrained Pell equations. (English summary) **98g:11147**
Kibler, Maurice On quadratic and nonquadratic forms: application to $\mathbf{R}^{2m} \to \mathbf{R}^{2m-n}$ nonbijective transformations. **98i:55017**
Lu, Hong Wen (*with* Bowman, Harold; Shiue, Peter Jau-Shyong) On a Diophantine equation related to symmetric design. **98h:05050**
Mimura, Yoshio *see* **Kaplan, Pierre, 98e:11125**
Niklasch, Gerhard Counting exceptional units. (English summary) **98g:11124**
Ono, Ken Euler's concordant forms. **98c:11051**
Shiu, P. Involutions associated with sums of two squares. (English summary) **98c:11006**
Shiue, Peter Jau-Shyong *see* **Lu, Hong Wen; et al., 98h:05050**

11D25 Cubic and quartic equations

Bremner, Andrew (*with* Guy, Richard K.) Two more representation problems. (English summary) **98d:11037**
Cipu, Mihai Diophantine equations with at most one positive solution. (English summary) **98j:11017**
Cohn, J. H. E. The Diophantine equation $x^4 - Dy^2 = 1$. II. **98e:11033**
— The Diophantine equation $x^4 + 1 = Dy^2$. (English summary) **98e:11032**
Filakovszky, Péter The Diophantine equation $x^4 + kx^2y^2 + y^4 = z^2$.
Garaev, M. Z. On the Diophantine equation $x^3 + y^3 + z^3 = nxyz$. (Russian)
Gilman, A. F. The Diophantine equation $x^3 + y^3 + z^3 - 3xyz = p^r$. **98i:11015**
Guy, Richard K. *see* **Bremner, Andrew, 98d:11037**
Heath-Brown, D. R. Searching for solutions of $x^3 + y^3 + z^3 = k$. **98f:11025**
Li, Fu Zhong The Diophantine equation $x^3 \pm 125 = Dy^2$. (Chinese. English and Chinese summaries)
— The Diophantine equation $x^3 \pm (2^{2k})^3 = Dy^2$. (English summary) **98j:11018**
Li, Qi Sheng[1] *see* **Zheng, Zhou Shun, 98b:11028**
Li, Wei An elementary solution method for the indefinite equation $y^3 = x^2 + 2$. (Chinese. English and Chinese summaries) **98g:11031**
Mohanty, Shreedhara Prasada *see* **Ramasamy, A. M. S., 98g:11032**
Ramasamy, A. M. S. (*with* Mohanty, Shreedhara Prasada) On the positive integral solutions of the Diophantine equation $ax^3 + by + c - xyz = 0$. **98g:11032**
Schinzel, Andrzej Triples of positive integers with the same sum and the same product. (English summary) **98g:11033**
Sun, Qi (*with* Yuan, Ping Zhi) A note on the Diophantine equation $x^4 - Dy^2 = 1$. (Chinese. English and Chinese summaries) **98g:11034**

Venkatramaiah, S. A note on the Diophantine equation $x^2 + y^2 + 1 = xyz$. **98e:11034**
de Weger, Benjamin M. M. Equal binomial coefficients: some elementary considerations. **98b:11027**
Xu, Xue Wen The Diophantine equation $y(y+1)(y+2)(y+3) = p^{2k}x(x+1)(x+2)(x+3)$. (Chinese. English and Chinese summaries) **98m:11018**
Yuan, Ping Zhi *see* **Sun, Qi, 98g:11034**
Zheng, Zhou Shun (*with* Li, Qi Sheng[1]) The Diophantine equation $x^3 = Ny^2 + 1$. (Chinese. English and Chinese summaries) **98b:11028**

Items with secondary classifications in 11D25

Bremner, Andrew Some special curves of genus 5. **98c:11058**
Buchholz, Ralph H. (*with* Rathbun, Randall L.) An infinite set of Heron triangles with two rational medians. **98a:51015**
Gebel, J. (*with* Pethő, Attila; Zimmer, Horst Günter) Computing integral points on Mordell's elliptic curves. (English summary) **98g:11146**
— (*with* Pethő, Attila; Zimmer, Horst Günter) On Mordell's equation. (English summary) **98m:11049**
Kihara, Shoichi On an infinite family of elliptic curves with rank ≥ 14 over $\mathbf{Q}$. **98d:11059**
— On the rank of elliptic curves with three rational points of order 2. **98g:11062**
— On the rank of elliptic curves with three rational points of order 2. II. **98m:11050**
Ni, Gu Yan On the Diophantine equation $x^3 \pm p^{3n} = Dy^2$. (Chinese. English and Chinese summaries) **98b:11033**
Pethő, Attila *see* **Gebel, J.; et al., 98g:11146** *and* **98m:11049**
Pintér, Ákos (*with* de Weger, Benjamin M. M.) $210 = 14 \times 15 = 5 \times 6 \times 7 = \binom{21}{2} = \binom{10}{4}$. (English summary) **98k:11032**
Rathbun, Randall L. *see* **Buchholz, Ralph H., 98a:51015**
Smart, N. P. (*with* Stephens, N. M.) Integral points on elliptic curves over number fields. **98k:11072**
Stephens, N. M. *see* **Smart, N. P., 98k:11072**
de Weger, Benjamin M. M. *see* **Pintér, Ákos, 98k:11032**
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11D41 Higher degree equations; Fermat's equation

Bennett, Michael A. (*with* de Weger, Benjamin M. M.) On the Diophantine equation $|ax^n - by^n| = 1$. (English summary) **98c:11024**
Brindza, B. (*with* Pintér, Ákos) On the irreducibility of some polynomials in two variables. **98j:11019**
Bugeaud, Yann Bounds for the solutions of superelliptic equations. **98c:11025**
Choudhry, Ajai The Diophantine equation $X_1^5 + X_2^5 + 2X_3^5 = Y_1^5 + Y_2^5 + 2Y_3^5$. (English summary)
Darmon, Henri Faltings plus epsilon, Wiles plus epsilon, and the generalized Fermat equation. **98h:11034a**
— Corrigendum to: "Faltings plus epsilon, Wiles plus epsilon, and the generalized Fermat equation". **98h:11034b**
Fujimori, Masami On the solutions of Thue equations. **98k:11026**
Greaves, George Some Diophantine equations with almost all solutions trivial. **98h:11035**
Hellegouarch, Yves Une généralisation d'un théorème de Terjanian. (French summary) [A generalization of a theorem of Terjanian] **98f:11026**
Le, Mao Hua On the number of solutions of Thue's equation. (Chinese. English and Chinese summaries) **98b:11029**
Luo, Yong Chao An elementary proof of Fermat's conjecture. (Chinese. English and Chinese summaries) **98g:11035**
Mauldin, R. Daniel A generalization of Fermat's last theorem: the Beal conjecture and prize problem. **98j:11020**
Murty, V. Kumar Fermat's last theorem. **98i:11016**
Pintér, Ákos *see* **Brindza, B., 98j:11019**
van der Poorten, Alfred J. ★ Notes on Fermat's last theorem. (English summary) **98c:11026**
Poulakis, Dimitrios Polynomial bounds for the solutions of a class of Diophantine equations. (English summary) **98g:11036**
Ribet, Kenneth A. On the equation $a^p + 2^\alpha b^p + c^p = 0$. (English summary) **98e:11035**
Skinner, C. M. (*with* Wooley, Trevor D.) On the paucity of non-diagonal solutions in certain diagonal Diophantine systems. **98c:11027**
Steiner, Ray P. Class number bounds and Catalan's equation. (English summary) **98j:11021**
Tong, Sheng Lin The Diophantine equation $by^2 = f(x)/g(x)$. (Chinese. English and Chinese summaries) **98c:11028**
Wang, Jia He[2] The proof of Fermat's last theorem. (Chinese. English and Chinese summaries) **98e:11036**
de Weger, Benjamin M. M. *see* **Bennett, Michael A., 98c:11024**
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Bilu, Yuri F. Quantitative Siegel's theorem for Galois coverings. (English summary) **98d:11071**
Burger, Edward B. (*with* Morgan, Frank) Fermat's last theorem, the four color conjecture, and Bill Clinton for April Fools' Day. **98g:01037**
Darmon, Henri (*with* Merel, Loïc) Winding quotients and some variants of Fermat's last theorem. **98h:11076**
Houzel, Christian ★ Théorème de Fermat. (French) [Fermat's theorem] **98d:11002**
Le, Mao Hua The number of solutions of the Diophantine equation $D_1x^2 + 2^m D_2 = y^n$. (Chinese. English and Chinese summaries) **98g:11038**
— *see also* **Errata: "A note on perfect powers of the form $x^{m-1} + \cdots + x + 1$", 98k:11030**
Merel, Loïc *see* **Darmon, Henri, 98h:11076**
Mohit, Satya (*with* Murty, M. Ram) Wieferich primes and Hall's conjecture. (French summary) **98m:11004**
Morgan, Frank *see* **Burger, Edward B., 98g:01037**
Murty, M. Ram *see* **Mohit, Satya, 98m:11004**
Poulakis, Dimitrios Integer points on algebraic curves with exceptional units. (English summary) **98k:11088**
Ribenboim, Paulo Errata and addenda: "The Catalan conjecture" [Bull. Soc. Catalana Mat. **11** (1996), no. 1, 95–105; MR 97h:11117]. (Catalan)
Saradha, N. On blocks of arithmetic progressions with equal products. (English and French summaries) **98g:11012**
Smart, N. P. How difficult is it to solve a Thue equation? (English summary) **98d:11164**
Swinnerton-Dyer, H. P. F. Diophantine equations: the geometric approach. **98b:11068**
Végső, János On power values of binary forms over function fields. (English summary) **98a:11039**
Velleman, Daniel J. Fermat's last theorem and Hilbert's program. **98f:01051**
(Yu, Li[2]) *see* **Errata: "A note on perfect powers of the form $x^{m-1} + \cdots + x + 1$", 98k:11030**
Yuan, Ping Zhi CM fields, units, and Diophantine equations. (Chinese. English and Chinese summaries) **98d:11134**
— *see also* **Errata: "A note on perfect powers of the form $x^{m-1} + \cdots + x + 1$", 98k:11030**

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"A note on perfect powers of the form $x^{m-1} + \cdots + x + 1$" Editor's note: "A note on perfect powers of the form $x^{m-1} + \cdots + x + 1$" [Acta Arith. **69** (1995), no. 1, 91–98; MR 96b:11034] by M. H. Le and "On the Diophantine equation $(x^m - 1)/(x - 1) = y^n$" [ibid. **73** (1995), no. 4, 363–366; MR 96m:11023] by L. Yu and Le. **98k:11030**

11D57 Multiplicative and norm form equations

Bombieri, E. (*with* Mueller, Julia H.; Poe, M.) The unit equation and the cluster principle. **98a:11037**
Everest, G. R. (*with* Győry, K.) Counting solutions of decomposable form equations. **98e:11037**
Evertse, J.-H. (*with* Győry, K.) The number of families of solutions of decomposable form equations. **98e:11038**
Győry, K. (*with* Sárközy, András) On prime factors of integers of the form $(ab+1)(bc+1)(ca+1)$. **98b:11030**
— Bounds for the solutions of decomposable form equations. (English summary) **98k:11027**
— *see also* **Everest, G. R., 98e:11037** *and* **Evertse, J.-H., 98e:11038**
Mueller, Julia H. *see* **Bombieri, E.; et al., 98a:11037**
Poe, M. *see* **Bombieri, E.; et al., 98a:11037**
Sárközy, András *see* **Győry, K., 98b:11030**
Trelina, L. A. On a hyperelliptic Diophantine equation. (Russian. English and Russian summaries) **98b:11031**

Items with secondary classifications in 11D57

Bugeaud, Yann ★ Formes linéaires de logarithmes et applications. (French. French summary) [Linear forms in logarithms and applications] **98d:11092**
Gaál, István (*with* Pohst, Michael E.) Power integral bases in a parametric family of totally real cyclic quintics. (English summary) **98a:11160**
Pohst, Michael E. *see* **Gaál, István, 98a:11160**
Schmidt, Wolfgang M. The number of rational approximations to algebraic numbers and the number of solutions of norm form equations. **98b:11080**

11D61 Exponential equations

Arif, S. Akhtar (*with* Muriefah, Fadwa S. Abu) On the Diophantine equation $x^2 + 2^k = y^n$. (English summary) **98b:11032**
Bugeaud, Yann On the Diophantine equation $x^2 - p^m = \pm y^n$. **98g:11037**
Deng, Mou Jie *see* **Wang, Jing He, 98b:11034**
Dofs, Erik Two exponential Diophantine equations. **98e:11039**
Guo, Yong Dong *see* **Le, Mao Hua**
Győry, K. Applications of unit equations. **98f:11027**
— On the Diophantine equation $\binom{n}{k} = x^l$. **98f:11028**
Hering, Christoph On the Diophantine equations $ax^2 + bx + c = c_0 c_1^{y_1} \cdots c_r^{y_r}$. (English summary) **98m:11019**
Le, Mao Hua The Diophantine equations $x^2 \pm 2^m = y^n$. (Chinese. English and Chinese summaries) **98m:11020**
— On the Diophantine equation $(x^m + 1)(x^n + 1) = y^2$. **98h:11036**
— The number of solutions of the Diophantine equation $D_1x^2 + 2^m D_2 = y^n$. (Chinese. English and Chinese summaries) **98g:11038**
— A note on the Diophantine equation $x^2 + 7 = y^n$. (English summary) **98e:11040**
— The exponential diophantine equation $a^x - p_1^{y_1} \cdots p_k^{y_k} = \delta b^z$. (Chinese. English and Chinese summaries)
— (*with* Guo, Yong Dong) The Diophantine equation $x^2 + 2^m = y^n$. (Chinese)
— A note on the Diophantine equation $(m^3 - 3m)^x + (3m^2 - 1)^y = (m^2 + 1)^z$. (English summary) **98m:11021**
— A note on the Diophantine equation $D_1x^2 + D_2 = 2y^n$. (English summary) **98j:11022**
— *see also* **Errata: "A note on perfect powers of the form $x^{m-1} + \cdots + x + 1$", 98k:11030**
Leyendekkers, J. V. (*with* Rybak, J. M.; Shannon, Anthony) The anatomy of odd-exponent Diophantine triples. (English summary) **98k:11028**
— (*with* Rybak, J. M.; Shannon, Anthony) Analysis of Diophantine properties using modular rings with four and six classes. (English summary) **98k:11029**
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11E04 Quadratic forms over general fields

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11E08 Quadratic forms over local rings and fields

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11E20 General ternary and quaternary quadratic forms; forms of more than two variables

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— (*with* Khosravani, Azar) Universal binary Hermitian forms. (English summary) **98a:11048**
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11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

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11E57 Classical groups [see also 14Lxx, 20Gxx]

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— Erratum to: "On weak approximation in algebraic groups and related varieties defined by systems of forms". **98e:11050b**

11E70 K-theory of quadratic and Hermitian forms

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11E72 Galois cohomology of linear algebraic groups [see also 20G10]

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Items with secondary classifications in 11E76

Hurrelbrink, Jürgen (*with* Rehmann, Ulf) Splitting patterns and linear combinations of two Pfister forms. **98k:11033**
Kollár, János Polynomials with integral coefficients, equivalent to a given polynomial. (English summary) **98g:11076**
Ohno, Yasuo A conjecture on coincidence among the zeta functions associated with the space of binary cubic forms. (English summary) **98k:11037**
Rehmann, Ulf *see* **Hurrelbrink, Jürgen, 98k:11033**
Smart, N. P. S-unit equations, binary forms and curves of genus 2. **98d:11072**

11E81 Algebraic theory of quadratic forms; Witt groups and rings [see also 19G12, 19G24]

Beaulieu, Pat W. (*with* Palfrey, Tommy C.) The Galois number. **98k:11040**
Czogała, Alfred On integral Witt equivalence of algebraic number fields. (English summary) **98b:11039**
Fitzgerald, Robert W. Gorenstein Witt rings. II. (English summary) **98f:11031**
Hoffmann, Detlev W. Minimal forms for function fields of Pfister forms. (English summary) **98h:11046**
— On the dimensions of anisotropic quadratic forms in I^4. (English summary) **98i:11022**
Izhboldin, O. T. Quadratic forms with maximal splitting. (Russian. Russian summary) **98h:11047**
Jaworski, Piotr On the Witt rings of function fields of quasihomogeneous varieties. **98g:11044**
Ongenae, Veerle (*with* Van Geel, Jan) Polynomials annihilating the Witt ring. (English summary) **98c:11035**
Palfrey, Tommy C. *see* **Beaulieu, Pat W., 98k:11040**
Szyjewski, Marek Witt rings of Grassmann varieties. (English summary) **98a:11049**
— On the Witt ring of a relative projective line. **98k:11041**
Szymiczek, Kazimierz Hilbert-symbol equivalence of number fields. (English summary) **98m:11028**
Van Geel, Jan *see* **Ongenae, Veerle, 98c:11035**

Items with secondary classifications in 11E81

Gille, Philippe Examples of non-rational varieties of adjoint groups. **98k:11038**
Hurrelbrink, Jürgen (*with* Rehmann, Ulf) Splitting patterns and linear combinations of two Pfister forms. **98k:11033**
Iversen, Birger Dirac's algebra and Brauer-Wall groups. **98g:11045**
Jaworski, Piotr On Witt rings of function fields of real analytic surfaces and curves. (English summary) **98m:14053**
Laghribi, Ahmed Formes quadratiques en 8 variables dont l'algèbre de Clifford est d'indice 8. (English summary) [Quadratic forms in 8 variables whose Clifford algebra has index 8] **98j:11023**
Lewis, David W. Scaled trace forms of central simple algebras. **98h:16025**
Rehmann, Ulf *see* **Hurrelbrink, Jürgen, 98k:11033**
dos Santos, Clotilzio Moreira On n-Hilbert fields in characteristic 2. **98a:11042**
Szymiczek, Kazimierz ★ Bilinear algebra. (English summary) **98k:11034**

11E88 Quadratic spaces; Clifford algebras [see also 15A63, 15A66]

Estes, Dennis R. (*with* Guralnick, Robert M.) A stable range for quadratic forms over commutative rings. (English summary) **98m:11029**
Guralnick, Robert M. *see* **Estes, Dennis R., 98m:11029**
Iversen, Birger Dirac's algebra and Brauer-Wall groups. **98g:11045**

Items with secondary classifications in 11E88

Hsia, J. S. (*with* Jöchner, M.) Almost strong approximations for definite quadratic spaces. **98m:11025**
Izhboldin, O. T. Quadratic forms with maximal splitting. (Russian. Russian summary) **98h:11047**
Jöchner, M. *see* **Hsia, J. S., 98m:11025**
Kastler, Daniel (*with* Mebkhout, M.) Linear endomorphisms of Clifford algebras. (English summary) **98b:15029**
Laghribi, Ahmed Formes quadratiques en 8 variables dont l'algèbre de Clifford est d'indice 8. (English summary) [Quadratic forms in 8 variables whose Clifford algebra has index 8] **98j:11023**
Mebkhout, M. *see* **Kastler, Daniel, 98b:15029**

11E95 p-adic theory

Hironaka, Yumiko Spherical functions and local densities on Hermitian forms. (Japanese) **98h:11048**
Steger, Tim Local fields and buildings. **98k:11042**

Items with secondary classifications in 11E95

Roberts, Leslie G. The ring of Witt vectors. **98i:13048**

11Fxx Discontinuous groups and automorphic forms [see also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]

Borel, Armand ★ Automorphic forms on $\mathrm{SL}_2(\mathbf{R})$. (English summary) **98j:11028**
Iwaniec, Henryk ★ Topics in classical automorphic forms. **98e:11051**

Items with secondary classifications in 11Fxx

Li, Wen-Ch'ing Winnie ★ Number theory with applications. **98b:11001**

11F03 Modular and automorphic functions

Asai, Tetsuya (*with* Kaneko, Masanobu; Ninomiya, Hirohito) Zeros of certain modular functions and an application. **98e:11052**

Ito, Hideji Computation of modular equation. II. (English summary) **98h:11049**
Kaneko, Masanobu *see* **Asai, Tetsuya; et al., 98e:11052**
Ninomiya, Hirohito *see* **Asai, Tetsuya; et al., 98e:11052**
Philibert, Georges Un lemme de zéros modulaire. [A modular zero estimate] **98i:11023**
Rankin, R. A. Burnside's uniformization. **98b:11040**

Items with secondary classifications in 11F03

Bailey, David H. (*with* Plouffe, Simon) Recognizing numerical constants. (English summary) **98i:11111**
— (*with* Borwein, Jonathan M.; Borwein, P. B.) Ramanujan, modular equations, and approximations to pi or How to compute one billion digits of pi [MR 90d:11143]. (*see* **98f:00027**)
Barré-Sirieix, Katia Mesures de transcendance pour l'invariant modulaire. (English and French summaries) [Transcendence measures for the modular invariant] **98b:11084**
— Mesure d'approximation simultanée de q et $J(q)$. [Measure of simultaneous approximation for q and $J(q)$] **98f:11074**
Borwein, Jonathan M. *see* **Bailey, David H.; et al., (98f:00027)**
Borwein, P. B. *see* **Bailey, David H.; et al., (98f:00027)**
Chen, Imin (*with* Yui, Noriko) Singular values of Thompson series. (English summary) **98a:11051**
Diaz, Guy La conjecture des quatre exponentielles et les conjectures de D. Bertrand sur la fonction modulaire. (English and French summaries) [The four-exponential conjecture and D. Bertrand's conjectures for the modular function] **98h:11096**
Dijkgraaf, Robbert (*with* Moore, Gregory W.; Verlinde, Erik; Verlinde, Herman) Elliptic genera of symmetric products and second quantized strings. (English summary) **98g:81191**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Jacobi's theta series. **98b:11044**
Hsia, Liang-Chung (*with* Yu, Jing) On singular moduli of Drinfeld modules in characteristic two. **98m:11058**
Işık, Ahmet (*with* Ocak, Rahim) On an Eisenstein series of dimension-k. (English summary) **98i:11032**
Kaneko, Masanobu On Ito's observation on coefficients of the modular polynomial. **98a:11052**
— The Fourier coefficients and the singular moduli of the elliptic modular function $j(\tau)$. (English summary) **98h:11053**
Moore, Gregory W. *see* **Dijkgraaf, Robbert; et al., 98g:81191**
Nishioka, Keiji *see* **Duverney, Daniel; et al., 98b:11044**
Nishioka, Kumiko *see* **Duverney, Daniel; et al., 98b:11044**
Ocak, Rahim *see* **Işık, Ahmet, 98i:11032**
Plouffe, Simon *see* **Bailey, David H., 98i:11111**
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Verlinde, Erik *see* **Dijkgraaf, Robbert; et al., 98g:81191**
Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 98g:81191**
Yu, Jing *see* **Hsia, Liang-Chung, 98m:11058**
Yui, Noriko *see* **Chen, Imin, 98a:11051**
Zagier, Don The dilogarithm function in geometry and number theory. **98f:33037**
Zhang, Liang-Cheng Ramanujan's class invariants, Kronecker's limit formula and modular equations. III. **98k:11045**

11F06 Structure of modular groups and generalizations; arithmetic groups [see also 20H05, 20H10, 22E40]

Conway, John H. Understanding groups like $\Gamma_0(N)$. **98b:11041**
Johansson, Stefan Traces in arithmetic Fuchsian groups. (English summary) **98g:11046**
Takeuchi, Kisao Subgroups of the modular group with signature $(0; e_1, e_2, e_3, e_4)$. **98a:11050**
— Correction to the paper: "Subgroups of the modular group with signature $(0; e_1, e_2, e_3, e_4)$" [Saitama Math. J. **14** (1996), 55–78; MR 98a:11050].

Items with secondary classifications in 11F06

Aslam, M. (*with* Husnine, Syed Muhammad; Majeed, A.) Modular group action on certain quadratic fields. (English summary) **98h:11129**
Bauer, Michel Galois actions for genus one rational conformal field theories. (English summary) **98k:81246**
Brooks, Robert Wolfe (*with* Farkas, Hershel M.; Kra, Irwin) Number theory, theta identities, and modular curves. **98m:11030**
Cangül, İsmail Naci About some normal subgroups of Hecke groups. (English and Turkish summaries) **98j:20070**
Farkas, Hershel M. *see* **Brooks, Robert Wolfe; et al., 98m:11030**
Gehring, Frederick (*with* Maclachlan, C.; Martin, Gaven J.; Reid, Alan W.) Arithmeticity, discreteness and volume. (English summary) **98d:57022**
Georgelin, Yvon (*with* Wallet, Jean-Christophe) Group $\Gamma(2)$ and the fractional quantum Hall effect. (English summary) **98b:81292**
Husnine, Syed Muhammad *see* **Aslam, M.; et al., 98h:11129**
Kra, Irwin *see* **Brooks, Robert Wolfe; et al., 98m:11030**
Maclachlan, C. *see* **Gehring, Frederick; et al., 98d:57022**
Majeed, A. *see* **Aslam, M.; et al., 98h:11129**
Martin, Gaven J. *see* **Gehring, Frederick; et al., 98d:57022**
Reid, Alan W. *see* **Gehring, Frederick; et al., 98d:57022**
Schmutz Schaller, Paul Extremal Riemann surfaces with a large number of systoles. (English summary) **98c:11064**
Stéphan, Jérôme Construction d'entrelacs hyperpoliques et arithmétiques. (English and French summaries) [Construction of arithmetic hyperbolic links] **98h:57025**
Wallet, Jean-Christophe *see* **Georgelin, Yvon, 98b:81292**
Williams, Frank (*with* Wisner, Robert J.) Cohomology of certain congruence subgroups of the modular group. (English summary) **98j:11040**
Wisner, Robert J. *see* **Williams, Frank, 98j:11040**

11F11 Modular forms, one variable

Blecksmith, Richard (*with* Brillhart, John; Gerst, Irving) A constructive theory of triple and quintuple product identities of the second degree. (English summary) **98g:11047**
Brillhart, John *see* **Blecksmith, Richard; et al., 98g:11047**
Choie, YoungJu Correspondence among Eisenstein series $E_{2,1}(\tau, z)$, $H_{3/2}(\tau)$ and $E_2(\tau)$. (English summary) **98d:11044**
Gerst, Irving *see* **Blecksmith, Richard; et al., 98g:11047**
Goldfeld, Dorian Quasicharacters of congruence groups. **98k:11043**
Ramakrishnan, B. Theory of newforms. (English summary) **98j:11029**

Items with secondary classifications in 11F11

Asai, Tetsuya (*with* Kaneko, Masanobu; Ninomiya, Hirohito) Zeros of certain modular functions and an application. **98e:11052**
Bauer, Michel (*with* Coste, Antoine; Itzykson, Claude; Ruelle, P.) Comments on the links between su(3) modular invariants, simple factors in the Jacobian of Fermat curves, and rational triangular billiards. (English summary) **98g:81189**
Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Explicit evaluations of the Rogers-Ramanujan continued fraction. **98c:11007**
Blecksmith, Richard (*with* Brillhart, John; Gerst, Irving) A lattice proof of a modular identity. (English summary) **98e:11123**
Brillhart, John *see* **Blecksmith, Richard; et al., 98e:11123**
Bukhshtaber, V. M. (*with* Veselov, A. P.) On a remarkable functional equation in the theory of generalized Dunkl operators and transformations of elliptic genera. **98j:57039**
Cardoso, Gabriel Lopes *see* **de Wit, Bernard; et al., 98d:81096**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 98c:11007**
Choie, YoungJu Construction of mixed automorphic forms. (English summary) **98g:11048**
Conrey, J. B. (*with* Duke, W.; Farmer, D. W.) The distribution of the eigenvalues of Hecke operators. **98k:11047**
Cornelissen, Gunther Drinfeld modular forms of weight one. **98i:11039**
Coste, Antoine *see* **Bauer, Michel; et al., 98g:81189**
Cremona, John E. Computing periods of cusp forms and modular elliptic curves. (English summary) **98h:11058**
Dessai, Anand (*with* Jung, Rainer) On the rigidity theorem for elliptic genera. (English summary) **98m:58130**
Diaz, Guy La conjecture de Mahler-Manin. [The Mahler-Manin conjecture] **98i:11056**
Duke, W. *see* **Conrey, J. B.; et al., 98k:11047**
Farmer, D. W. *see* **Conrey, J. B.; et al., 98k:11047**
Gekeler, Ernst-Ulrich On the cuspidal divisor class group of a Drinfeld modular curve. (English summary) **98m:11057**
Gerst, Irving *see* **Blecksmith, Richard; et al., 98e:11123**
Hasegawa, Yuji Some examples of modular QM-abelian surfaces. (Japanese) **98a:11075**
Hoffstein, Jeffrey (*with* Luo, Wenzhi) Nonvanishing of L-series and the combinatorial sieve. **98d:11052**
Huang, Sen-Shan On modular relations for the Göllnitz-Gordon functions with applications to partitions. (English summary) **98k:11141**
Itzykson, Claude *see* **Bauer, Michel; et al., 98g:81189**
Judge, C. M. (*with* Phillips, Ralph S.) Dissolving a cusp form in the presence of multiplicities. **98d:11055**
Jung, Rainer *see* **Dessai, Anand, 98m:58130**
Kachru, Shamit (*with* Vafa, Cumrun) Exact results for $N = 2$ compactifications of heterotic strings. (English summary) **98b:81198**
Kaneko, Masanobu *see* **Asai, Tetsuya; et al., 98e:11052**
Kani, Ernst The existence of curves of genus two with elliptic differentials. **98b:11065**
Khare, Chandrashekhar Mod p modular forms. **98j:11034**
Kheldouni, Abdelaziz (*with* Lamrini, Fayçal) Chern-Dold character in elliptic cohomology. **98b:57042**
Kiming, Ian On the existence of $\overline{p}$-core partitions of natural numbers. **98f:11109**
Kings, Guido Extensions of motives of modular forms. **98j:11050**
Kohnen, Winfried Nonvanishing of Hecke L-functions associated to cusp forms inside the critical strip. **98j:11037**
Lamrini, Fayçal *see* **Kheldouni, Abdelaziz, 98b:57042**
Lee, Min Ho[1] Mixed cusp forms and parabolic cohomology. (English summary) **98f:11056**
— (*with* Suh, Dong Youp) Fourier coefficients of cusp forms associated to mixed cusp forms. (English summary) **98m:11031**
Lewis, John B.[2] Spaces of holomorphic functions equivalent to the even Maass cusp forms. **98f:11036**
Ling, San On the Q-rational cuspidal subgroup and the component group of $J_0(p^r)$. (English summary) **98e:11076**
Lomadze, G. On the number of representations of positive integers by a direct sum of binary quadratic forms with discriminant -23. (English summary) **98j:11026**
Luo, Wenzhi (*with* Ramakrishnan, Dinakar) Determination of modular forms by twists of critical L-values. **98h:11059**
— *see also* **Hoffstein, Jeffrey, 98d:11052**
Lüst, Dieter *see* **de Wit, Bernard; et al., 98d:81096**
Matsumoto, Kohji The value distribution of zeta functions associated with primitive cusp forms. (Japanese) **98h:11111**
Mohaupt, Thomas *see* **de Wit, Bernard; et al., 98d:81096**
Mori, A. Power series expansions of modular forms at CM points. (English summary) **98d:11047**
Ninomiya, Hirohito *see* **Asai, Tetsuya; et al., 98e:11052**
Ono, Ken Euler's concordant forms. **98c:11051**
Philibert, Georges Un lemme de zéros modulaire. [A modular zero estimate] **98i:11023**
Phillips, Ralph S. *see* **Judge, C. M., 98d:11055**
Ramakrishnan, Dinakar *see* **Luo, Wenzhi, 98h:11059**
Rey, Soo-Jong *see* **de Wit, Bernard; et al., 98d:81096**
(Rohrlich, David E.) *see* **Hoffstein, Jeffrey, 98d:11052**
Ruelle, P. *see* **Bauer, Michel; et al., 98g:81189**
Suh, Dong Youp *see* **Lee, Min Ho[1], 98m:11031**
Tang, Shu-Leung Congruences between modular forms, cyclic isogenies of modular elliptic curves and integrality of p-adic L-functions. (English summary) **98b:11056**

Vafa, Cumrun *see* **Kachru, Shamit, 98b:81198**
Veselov, A. P. *see* **Bukhshtaber, V. M., 98j:57039**
Walker, Peter L. ★ Elliptic functions. (English summary) **98g:33035**
de Wit, Bernard (*with* Cardoso, Gabriel Lopes; Lüst, Dieter; Mohaupt, Thomas; Rey, Soo-Jong) Higher-order gravitational couplings and modular forms in $N = 2$, $D = 4$ heterotic string compactifications. (English summary) **98d:81096**
Zhang, Liang-Cheng *see* **Berndt, Bruce C.; et al., 98c:11007**

11F12 Automorphic forms, one variable

Borel, Armand Introduction to automorphic forms in one variable. (Chinese. English and Chinese summaries) **98c:11036**
Choie, YoungJu Construction of mixed automorphic forms. (English summary) **98g:11048**
Farkas, Hershel M. (*with* Kra, Irwin) Automorphic forms for subgroups of the modular group. II. Groups containing congruence subgroups. **98d:11045**
(Feng, Xu Ning) *see* **Borel, Armand, 98c:11036**
Kra, Irwin *see* **Farkas, Hershel M., 98d:11045**
Shimura, Goro L-functions and eigenvalue problems. **98d:11046**

Items with secondary classifications in 11F12

Brooks, Robert Wolfe (*with* Kopeliovich, Yaacov) Uniformization of some quotients of modular curves. (English summary) **98h:11075**
Bruggeman, Roelof W. (*with* Miatello, R. J.) Estimates of Kloosterman sums for groups of real rank one. **98h:11060**
— Automorphic forms, hyperfunction cohomology, and period functions. (English summary) **98i:11035**
Cohen, Paula Beazley (*with* Manin, Yuriĭ Ivanovich; Zagier, Don) Automorphic pseudodifferential operators. **98e:11054**
Dutta Gupta, Shamita On the Rankin-Selberg method for functions not of rapid decay on congruence subgroups. (English summary) **98f:11041**
Elstrodt, J. (*with* Grunewald, Fritz; Mennicke, Jens L.) ★ Groups acting on hyperbolic space. (English summary) **98g:11058**
Grunewald, Fritz *see* **Elstrodt, J.; et al., 98g:11058**
Kopeliovich, Yaacov *see* **Brooks, Robert Wolfe, 98h:11075**
Kra, Irwin Uniformizations of Riemann surfaces: Poincaré theta series, Riemann's theta function and theta constants. **98c:32021**
Manin, Yuriĭ Ivanovich *see* **Cohen, Paula Beazley; et al., 98e:11054**
Mennicke, Jens L. *see* **Elstrodt, J.; et al., 98g:11058**
Miatello, R. J. *see* **Bruggeman, Roelof W., 98h:11060**
Pomykała, Jacek Average order of vanishing of twisted automorphic L-functions. (English summary) **98a:11062**
Selberg, Atle Linear operators and automorphic forms. **98e:32059**
Zagier, Don *see* **Cohen, Paula Beazley; et al., 98e:11054**

11F20 Dedekind eta function, Dedekind sums

Borwein, Jonathan M. (*with* Garvan, F. G.) Approximations to π via the Dedekind eta function. **98j:11030**
Dieter, U. Reciprocity theorems for Dedekind sums. **98i:11024**
Egami, Shigeki A note on the multiple elliptic Dedekind sum. **98h:11050**
Garvan, F. G. *see* **Borwein, Jonathan M., 98j:11030**
Gessel, Ira M. Generating functions and generalized Dedekind sums. (English summary) **98f:11032**
Kurt, Veli Remarks on higher-dimensional Dedekind sums. (English summary) **98c:11037**
Meyer, Jeffrey L. Properties of certain integer-valued analogues of Dedekind sums. **98k:11044**
Zhang, Liang-Cheng Ramanujan's class invariants, Kronecker's limit formula and modular equations. III. **98k:11045**
Zheng, Zhiyong Dedekind sums and uniform distribution (mod 1). (English summary) **98c:11038**

Items with secondary classifications in 11F20

Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Ramanujan's remarkable product of theta-functions. (English summary) **98k:33029**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 98k:33029**
Girstmair, Kurt Digit variance and Dedekind sums. (English summary) **98h:11014**
Miao, L. C. A study of Hecke operators. (English summary) **98b:11043**
Quebbemann, H.-G. Atkin-Lehner eigenforms and strongly modular lattices. (English summary) **98g:11081**
Raghavan, Srinivasacharya (*with* Rangachari, S. S.) On Ramanujan's elliptic integrals and modular identities. **98b:11045**
Ramanathan, K. G. On some theorems stated by Ramanujan. **98g:33027**
Rangachari, S. S. *see* **Raghavan, Srinivasacharya, 98b:11045**
Robert, Gilles La racine 12-ième canonique de $\Delta(L)^{[L:L]/\Delta(L)}$. (English summary) [The canonical 12th root of $\Delta(L)^{[L:L]/\Delta(L)}$] **98h:11051**
Szczech, Robert Gaussian sums, Dedekind sums and the Jacobi triple product identity. **98g:11098**
Takagi, Toshikazu The cuspidal class number formula for the modular curves $X_0(M)$ with M square-free. **98d:11066**
Voskresenskaya, G. V. Modular forms and regular representations of groups of order 24. (Russian) **98e:11053**
Walker, Peter L. ★ Elliptic functions. (English summary) **98g:33035**
Zhang, Liang-Cheng *see* **Berndt, Bruce C.; et al., 98k:33029**

11F22 Relationship to Lie algebras and finite simple groups

Chen, Imin (*with* Yui, Noriko) Singular values of Thompson series. (English summary) **98a:11051**
Cummins, C. J. (*with* Gannon, Terry) Modular equations and the genus zero property of moonshine functions. **98k:11046**
Gannon, Terry *see* **Cummins, C. J., 98k:11046**
Kaneko, Masanobu On Ito's observation on coefficients of the modular polynomial. **98a:11052**
Masayuki, Noro Computation of replicable functions using Risa/Asir. (Japanese) (*see* **98h:00039**)
Norton, S. P. Non-Monstrous Moonshine. (English summary) **98g:11049**
Voskresenskaya, G. V. Modular forms and regular representations of groups of order 24. (Russian) **98e:11053**
Yang, Jae-Hyun Kac-Moody algebras, the Monstrous Moonshine, Jacobi forms and infinite products. **98b:11042**
Yui, Noriko *see* **Chen, Imin, 98a:11051**

Items with secondary classifications in 11F22

Bantay, Peter Characters and modular properties of permutation orbifolds. (English summary) **98m:81165**
Bauer, Michel (*with* Coste, Antoine; Itzykson, Claude; Ruelle, P.) Comments on the links between su(3) modular invariants, simple factors in the Jacobian of Fermat curves, and rational triangular billiards. (English summary) **98g:81189**
Bloch, Spencer J. Zeta values and differential operators on the circle. (English summary) **98a:11117**
Borcherds, Richard E. (*with* Ryba, Alex J. E.) Modular Moonshine. II. **98b:17030**
Chaudhuri, Shyamoli (*with* Lowe, David A.) Monstrous string-string duality. (English summary) **98c:81160**
Coste, Antoine *see* **Bauer, Michel; et al., 98g:81189**
Gannon, Terry The level two and three modular invariants of SU(n). (English summary) **98c:17021**
Gritsenko, V. A. (*with* Nikulin, Vyacheslav Valentinovich) Igusa modular forms and "the simplest" Lorentzian Kac-Moody algebras. (Russian. Russian summary) **98a:11059**
— (*with* Nikulin, Vyacheslav Valentinovich) Siegel automorphic form corrections of some Lorentzian Kac-Moody Lie algebras. (English summary) **98g:11056**
Itzykson, Claude *see* **Bauer, Michel; et al., 98g:81189**
Kac, Victor G. (*with* Todorov, Ivan T.) Affine orbifolds and rational conformal field theory extensions of $W_{1+\infty}$. (English summary) **98j:81119**
Kapranov, Mikhail Eisenstein series and quantum affine algebras. **98i:11033**
Lowe, David A. *see* **Chaudhuri, Shyamoli, 98c:81160**
Nikulin, Vyacheslav Valentinovich *see* **Gritsenko, V. A., 98a:11059** *and* **98g:11056**
Ruelle, P. *see* **Bauer, Michel; et al., 98g:81189**
Ryba, Alex J. E. *see* **Borcherds, Richard E., 98b:17030**
Todorov, Ivan T. *see* **Kac, Victor G., 98j:81119**

11F25 Hecke-Petersson operators, differential operators (one variable)

Andrianov, Anatoliĭ Nikolaevich Harmonic theta functions and Hecke operators. (Russian. Russian summary) **98a:11053**
Cohen, Paula Beazley (*with* Manin, Yuriĭ Ivanovich; Zagier, Don) Automorphic pseudodifferential operators. **98e:11054**
Conrey, J. B. (*with* Duke, W.; Farmer, D. W.) The distribution of the eigenvalues of Hecke operators. **98k:11047**
Duke, W. *see* **Conrey, J. B.; et al., 98k:11047**
Farmer, D. W. *see* **Conrey, J. B.; et al., 98k:11047**
Manin, Yuriĭ Ivanovich *see* **Cohen, Paula Beazley; et al., 98e:11054**
Miao, L. C. A study of Hecke operators. (English summary) **98b:11043**
Rankin, R. A. The adjoint Hecke operator. II. **98e:11055**
Scholl, A. J. On the Hecke algebra of a noncongruence subgroup. **98a:11054**
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Voskresenskaya, G. V. Modular forms and regular representations of groups of order 24. (Russian) **98e:11053**

11F27 Theta series; Weil representation

Adin, Ron M. (*with* Kopeliovich, Yaacov) Short eigenvectors and multidimensional theta functions. (English summary) **98k:11048**
Andrianov, Anatoliĭ Nikolaevich On a suggestion of Yu. V. Linnik, Hecke operators and theta functions. (Russian. Russian summary) **98a:11055**
Brooks, Robert Wolfe (*with* Farkas, Hershel M.; Kra, Irwin) Number theory, theta identities, and modular curves. **98m:11030**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Jacobi's theta series. **98b:11044**
Farkas, Hershel M. (*with* Kra, Irwin) Theta constant identities with applications to combinatorial number theory. **98k:11049**
— *see also* **Brooks, Robert Wolfe; et al., 98m:11030**
Kopeliovich, Yaacov *see* **Adin, Ron M., 98k:11048**
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Lee, Min Ho[1] On generalized theta series liftings. (English summary) **98f:11033**
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Quebbemann, H.-G. Atkin-Lehner eigenforms and strongly modular lattices. (English summary) **98g:11081**
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Rangachari, S. S. *see* **Raghavan, Srinivasacharya, 98b:11045**
Robert, Gilles La racine 12-ième canonique de $\Delta(L)^{[L:L]/\Delta[L]}$. (English summary) [The canonical 12th root of $\Delta(L)^{[L:L]/\Delta[L]}$] **98h:11051**
Rosenberger, Gerhard (*with* von Rüden, Bettina) Theta-functions for the Hecke-groups $G(\sqrt{p})$, $p = 2$ or 3. **98k:11050**
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— Eigenfunctions of the Weil representation of unitary groups of one variable. (English summary) **98h:11052**
Yildiz, İsmet Transformations and multiplicative factors of the theta functions associated with the periods $\frac{p}{2}$ and $\frac{qi}{2}$. (English summary) **98g:11050**

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Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 98k:33029**
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Ginzburg, David (*with* Rallis, Stephen; Soudry, David) Cubic correspondences arising from G_2. (English summary) **98a:11066**
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Rhodes, John A. The theta multiplier for number fields via p-adic planes. (English summary) **98i:11099**
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Walling, Lynne H. Explicit Siegel theory: an algebraic approach. **98i:11021**
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Breulmann, S. Estimates for Fourier coefficients of Siegel cusp forms. **98k:11051**
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— A generalization of Kohnen's estimates for Fourier coefficients of Siegel cusp forms. **98j:11032**
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— The additive divisor problem and its analogs for Fourier coefficients of cusp forms. II. **98i:11026**
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Lee, Min Ho[1] (*with* Suh, Dong Youp) Fourier coefficients of cusp forms associated to mixed cusp forms. (English summary) **98m:11031**
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Furusawa, Masaaki (*with* Shalika, J. A.) On Fourier coefficients of Eisenstein series. **98m:11042**
Guerzhoy, Pavel A note on quadratic congruences. (English summary) **98g:11052**
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Kawai, Toshiya String duality and modular forms. (English summary) **98b:81200**
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Li, Jian-Shu Automorphic forms with degenerate Fourier coefficients. (English summary) **98f:11049**
Ono, Ken Rank zero quadratic twists of modular elliptic curves. (English summary) **98b:11071**
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11F32 Modular correspondences, etc.

Ginzburg, David (*with* Rallis, Stephen; Soudry, David) A new construction of the inverse Shimura correspondence. **98a:11056**
Kudla, Stephen S. Algebraic cycles on Shimura varieties of orthogonal type. **98e:11058**
Rallis, Stephen *see* **Ginzburg, David; et al., 98a:11056**
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Abramovich, Dan A linear lower bound on the gonality of modular curves. **98b:11063**
Niwa, Shinji On Shimura lifting of degree 2. (Japanese) **98k:11056**
Ono, Ken Rank zero quadratic twists of modular elliptic curves. (English summary) **98b:11071**

11F33 Congruences for modular and p-adic modular forms [see also 14G20, 22E50]

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— On the coefficients of the characteristic series of the U-operator. (English summary) **98m:11032**
— (*with* Stevens, Glenn; Teitelbaum, Jeremy) Numerical experiments on families of p-adic modular forms. **98k:11052**
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— A note on quadratic congruences. (English summary) **98g:11052**
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— (*with* Tilouine, Jacques; Urban, Eric) Adjoint modular Galois representations and their Selmer groups. (English summary) **98m:11034**
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Urban, Eric Module de congruences pour GL(2) d'un corps imaginaire quadratique et théorie d'Iwasawa d'un corps CM biquadratique. [Congruence module for GL(2) of an imaginary quadratic field and Iwasawa theory of a biquadratic CM field] **98m:11035**
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Shepherd-Barron, Nicholas (*with* Taylor, Richard L.) On degree 2 Galois representations over $\mathbf{F}_4$. (English summary) **98m:11061**
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Taylor, Richard L. Representations of Galois groups associated to modular forms. **98d:11057**
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11F37 Forms of half-integer weight; nonholomorphic modular forms

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Lewis, John B.[2] Spaces of holomorphic functions equivalent to the even Maass cusp forms. **98f:11036**
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Shemanske, Thomas R. Newforms of half-integral weight. **98k:11053**

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— Twists of elliptic curves. (English summary) **98h:11071**
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11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [see also 14J20]

Dünger, Volker p-adic interpolation of convolutions of Hilbert modular forms. (English summary) **98b:11050**
Grundman, H. G. Hilbert modular varieties of Galois quartic fields. (English summary) **98c:11040**
Kojima, Hisashi On explicit construction of Hilbert-Siegel modular forms of degree two. **98f:11037**
Lee, Min Ho[1] Mixed Hilbert modular forms and families of abelian varieties. **98g:11055**
Schmidt, Thomas A. Klein's cubic surface and a "non-arithmetic" curve. **98m:11036**

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Farb, Benson (*with* Schwartz, Richard Evan) The large-scale geometry of Hilbert modular groups. (English summary) **98f:22018**
Jarvis, Frazer On Galois representations associated to Hilbert modular forms. (English summary) **98h:11067**
Komatsu, Keiichi Construction of normal bases by special values of Hilbert modular functions. **98f:11122**
Motohashi, Yōichi A trace formula for the Picard group. I. **98a:11067**
Phillips, Ralph S. Scattering theory for the Hilbert modular group. **98f:11054**
Rohlfs, Jürgen (*with* Schwermer, Joachim) An arithmetic formula for a topological invariant of Siegel modular varieties. **98f:11044**
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11F46 Siegel modular groups and their modular and automorphic forms

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— (*with* Nikulin, Vyacheslav Valentinovich) Siegel automorphic form corrections of some Lorentzian Kac-Moody Lie algebras. (English summary) **98g:11056**
Ibukiyama, Tomoyoshi (*with* Katsurada, Hidenori) An explicit form of Koecher Maass Dirichlet series associated with Siegel Eisenstein series. (Japanese) **98i:11029**
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Goren, Eyal Z. *see* **de Shalit, E.**, **98g:11071**
Hoffman, J. William (*with* Weintraub, Steven H.) Cohomology of the Siegel modular group of degree two and level four. (English summary) **98j:11039**
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— A generalization of Kohnen's estimates for Fourier coefficients of Siegel cusp forms. **98j:11032**
Ibukiyama, Tomoyoshi (*with* Saito, Hiroshi[1]) On zeta functions associated to symmetric matrices. III. An explicit form of L-functions. (English summary) **98f:11096**
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Arakawa, Tsuneo Jacobi forms and Selberg zeta functions. (Japanese) **98i:11030**
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— (*with* Ozeki, Michio) Construction of Jacobi forms from certain combinatorial polynomials. **98a:11060**
Choie, YoungJu (*with* Kohnen, Winfried) Rankin's method and Jacobi forms. **98i:11031**
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Dulinski, Joachim L-functions for Jacobi forms on $\mathbf{H} \times \mathbf{C}$. **98b:11052**

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Hamahata, Yoshinori Modular 3-folds obtained from quaternion unitary groups of degree 2. (English summary) **98k:11057**
Işık, Ahmet (*with* Ocak, Rahim) On an Eisenstein series of dimension-k. (English summary) **98i:11032**
— (*with* Dıkıcı, Ramazan) The Jacobi modular forms. (English summary)
Kapranov, Mikhail Eisenstein series and quantum affine algebras. **98i:11033**
Kato, Shin-ichi (*with* Murase, Atsushi; Sugano, Takashi) Spherical functions on spherical homogeneous spaces and Rankin-Selberg convolution. (English summary) **98f:11040**
Kohnen, Winfried On the uniform convergence of Poincaré series of exponential type on Jacobi groups. **98k:11058**
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Satake, Ichiro On zeta functions associated with self-dual homogeneous cones. **98d:11050**
Sugano, Takashi *see* **Kato, Shin-ichi; et al.**, **98f:11040**
Wang, Ju Ping Some new results about Jacobi forms. **98b:11054**
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Böcherer, S. (*with* Schulze-Pillot, R.) Siegel modular forms and theta series attached to quaternion algebras. II. (English summary) **98i:11028**
Furusawa, Masaaki (*with* Shalika, J. A.) On Fourier coefficients of Eisenstein series. **98m:11042**
Ginzburg, David (*with* Piatetski-Shapiro, Ilya; Rallis, Stephen) L functions for the orthogonal group. (English summary) **98m:11041**
Horie, Taro A generalization of Kohnen's estimates for Fourier coefficients of Siegel cusp forms. **98j:11031**
Hunt, Bruce ★ The geometry of some special arithmetic quotients. **98c:14033**
Jorgenson, Jay (*with* Todorov, Andreĭ Nikolov) Analytic discriminants for manifolds with canonical class zero. **98a:58167**
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Rhodes, John A. The theta multiplier for number fields via p-adic planes. (English summary) **98i:11099**
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Shimura, Goro Zeta functions and Eisenstein series on classical groups. (English summary) **98k:11060**
Sofer, Adriana p-adic aspects of Jacobi forms. **98b:11058**
Todorov, Andreĭ Nikolov *see* **Jorgenson, Jay**, **98a:58167**
Tokuno, Yasushi The special value of the L-function attached to Jacobi forms. (English summary) **98d:11053**
Yang, Jae-Hyun Kac-Moody algebras, the Monstrous Moonshine, Jacobi forms and infinite products. **98b:11042**
Yoshida, Masaaki ★ Hypergeometric functions, my love. **98k:33024**

11F60 Hecke-Petersson operators, differential operators (several variables)

Items with secondary classifications in 11F60

Choie, YoungJu (*with* Kohnen, Winfried) Rankin's method and Jacobi forms. **98i:11031**
— Jacobi forms and the heat operator. **98c:11042**
Goetze, Thomas Euler products associated to metaplectic automorphic forms on the 3-fold cover of GSp(4). **98e:11061**
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Salvati Manni, R. Siegel Eisenstein series and Hecke operators. **98j:11036**
Selberg, Atle Linear operators and automorphic forms. **98e:32059**

11F66 Dirichlet series and functional equations in connection with modular forms

Culp-Ressler, Wendell A Hecke correspondence theorem for modular integrals with rational period functions. **98b:11055**
Duke, W. (*with* Iwaniec, Henryk) Estimates for coefficients of L-functions. III. **98h:11056**
Dutta Gupta, Shamita On the Rankin-Selberg method for functions not of rapid decay on congruence subgroups. (English summary) **98f:11041**
— Mean values of L-functions over function fields. (English summary) **98f:11042**
Guthmann, Andreas Die Riemann-Siegel-Integralformel für die Mellintransformation von Spitzenformen. (English summary) [The Riemann-Siegel integral formula for the Mellin transform of cusp forms] **98i:11034**
Hanjo, Takeshi An estimate of a Dirichlet series of Kloosterman type. **98e:11062**
Iwaniec, Henryk *see* **Duke, W.**, **98h:11056**
Kohnen, Winfried Nonvanishing of Hecke L-functions associated to cusp forms inside the critical strip. **98j:11037**
Murty, M. Ram Non-vanishing of L-functions. **98m:11039**
Pomykała, Jacek Average order of vanishing of twisted automorphic L-functions. (English summary) **98a:11062**
Shimura, Goro ★ Euler products and Eisenstein series. (English summary) **98h:11057**
— Zeta functions and Eisenstein series on classical groups. (English summary) **98k:11060**
Stefanicki, Tomasz Non-vanishing of L-functions attached to automorphic representations of GL(2) over **Q**. **98a:11063**

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Arakawa, Tsuneo Motivations of the Ibukiyama-Saito theory. (Japanese) **98a:11058**
Banks, William D. Twisted symmetric-square L-functions and the nonexistence of Siegel zeros on GL(3). **98d:11054**
Besser, Amnon On the finiteness of Ш for motives associated to modular forms. (English summary) **98d:11067**
Duke, W. (*with* Imamoğlu, Ö.) Siegel modular forms of small weight. **98m:11037**
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Ibukiyama, Tomoyoshi (*with* Katsurada, Hidenori) An explicit form of Koecher Maass Dirichlet series associated with Siegel Eisenstein series. (Japanese) **98i:11029**
Imamoğlu, Ö. *see* **Duke, W.**, **98m:11037**
Katsurada, Hidenori *see* **Ibukiyama, Tomoyoshi**, **98i:11029**
Kuznetsov, N. V. Sums of Kloosterman sums and the eighth power moment of the Riemann zeta-function. **98c:11085**
Lee, Min Ho[1] Mixed cusp forms and parabolic cohomology. (English summary) **98f:11056**
Luo, Wenzhi (*with* Ramakrishnan, Dinakar) Determination of modular forms by twists of critical L-values. **98h:11059**
Piatetski-Shapiro, Ilya *see* **Ginzburg, David; et al.**, **98m:11041**
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Ramakrishnan, Dinakar *see* **Luo, Wenzhi**, **98h:11059**
Sato, Fumihiro Report on the convergence of zeta functions associated with prehomogeneous vector spaces. **98d:11104**
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Vinogradov, A. I. Nonhomogeneous Rankin convolutions. (Russian. Russian summary) **98g:11059**
Zhang, Shouwu Heights of Heegner cycles and derivatives of L-series. **98i:11044**

11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols

Ash, Avner (*with* Ginzburg, David) Generalized modular symbols and relative Lie algebra cohomology. (English summary) **98g:11057**
Bruggeman, Roelof W. Automorphic forms, hyperfunction cohomology, and period functions. (English summary) **98i:11035**
Cremona, John E. Computing periods of cusp forms and modular elliptic curves. (English summary) **98h:11058**
Ginzburg, David *see* **Ash, Avner**, **98g:11057**
Hida, Haruzo On the critical values of L-functions of GL(2) and GL(2) × GL(2). **98f:11043**
Hoffstein, Jeffrey (*with* Luo, Wenzhi) Nonvanishing of L-series and the combinatorial sieve. **98d:11052**
Ikeda, Tamotsu An introduction to results related to the central critical value. (Japanese) (*see* **98d:11004**)
James, Kevin L-series with nonzero central critical value. (English summary) **98m:11040**
Luo, Wenzhi (*with* Ramakrishnan, Dinakar) Determination of modular forms by twists of critical L-values. **98h:11059**
— *see also* **Hoffstein, Jeffrey**, **98d:11052**
Nori, Madhav V. Some Eisenstein cohomology classes for the integral unimodular group. **98e:11063**
Perelli, A. (*with* Pomykała, Jacek) Averages of twisted elliptic L-functions. **98c:11044**
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Ramakrishnan, Dinakar *see* **Luo, Wenzhi**, **98h:11059**
Rohlfs, Jürgen (*with* Schwermer, Joachim) An arithmetic formula for a topological invariant of Siegel modular varieties. **98f:11044**
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Stopple, Jeffrey Special values of twisted symmetric square L-functions and the trace formula. (English summary) **98a:11064**
Tang, Shu-Leung Congruences between modular forms, cyclic isogenies of modular elliptic curves and integrality of p-adic L-functions. (English summary) **98b:11056**
Tokuno, Yasushi The special value of the L-function attached to Jacobi forms. (English summary) **98d:11053**
Yang, Tonghai Common zeros of theta functions and central Hecke L-values of CM number fields of degree 4. **98k:11061**

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Coleman, Robert F. p-adic Banach spaces and families of modular forms. **98b:11047**
Culp-Ressler, Wendell A Hecke correspondence theorem for modular integrals with rational period functions. **98b:11055**
Dąbrowski, Andrzej Bogdan (*with* Delbourgo, Daniel) S-adic L-functions attached to the symmetric square of a newform. **98b:11048**
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Diamond, Fred Congruences between modular forms: raising the level and dropping Euler factors. (English summary) **98m:11033**
Dünger, Volker p-adic interpolation of convolutions of Hilbert modular forms. (English summary) **98b:11050**
Gelbart, Stephen (*with* Rogawski, Jonathan D.; Soudry, David) Endoscopy, theta-liftings, and period integrals for the unitary group in three variables. **98m:11125**

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Guerzhoy, Pavel On Ramanujan congruences between special values of Hecke and Dirichlet L-functions. **98e:11059**
Guo, Jiandong On a generalization of a result of Waldspurger. (English summary) **98f:11047**
— Uniqueness of generalized Waldspurger model for $GL(2n)$. (English summary) **98m:11043**
Harris, Michael L-functions and periods of polarized regular motives. **98b:11070**
Hida, Haruzo On the search of genuine p-adic modular L-functions for $GL(n)$. (English and French summaries) **98i:11027**
Kojima, Hisashi Fourier coefficients of modular forms of half integral weight, periods of modular forms and the special values of zeta functions. (English summary) **98e:11057**
Kon-No, Takuya The residual spectrum of $U(2, 2)$. (English summary) **98i:11036**
Mizumoto, S. Nearly holomorphic Eisenstein liftings. **98m:11038**
Murty, M. Ram (*with* Murty, V. Kumar) ★ Non-vanishing of L-functions and applications. (English summary) **98h:11106**
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Murty, V. Kumar *see* **Murty, M. Ram**, **98h:11106**
Ogata, Shoetsu Generalized Hirzebruch's conjecture for Hilbert-Picard modular cusps. **98b:11053**
Ono, Ken Tate-Shafarevich groups of the congruent number elliptic curves. **98g:11064**
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Rovinskiĭ, M. Z. Multiple gamma functions and L-functions. **98b:11093**
Shimura, Goro ★ Euler products and Eisenstein series. (English summary) **98h:11057**
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Stefanicki, Tomasz Non-vanishing of L-functions attached to automorphic representations of $GL(2)$ over $\mathbf{Q}$. **98a:11063**
Tsuyumine, Shigeaki On values of L-functions of totally real algebraic number fields at integers. **98a:11153**
Yang, Tonghai Theta liftings and Hecke L-functions. **98e:11056**
— Eigenfunctions of the Weil representation of unitary groups of one variable. (English summary) **98h:11052**
Yoshida, Hiroyuki On absolute CM-periods. (Japanese summary) **98e:11075**

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11F70 Representation-theoretic methods; automorphic representations over local and global fields

Banks, William D. Twisted symmetric-square L-functions and the nonexistence of Siegel zeros on $GL(3)$. **98d:11054**
Bruggeman, Roelof W. (*with* Miatello, R. J.) Estimates of Kloosterman sums for groups of real rank one. **98h:11060**
Flicker, Yuval Z. On the symmetric square. Unit elements. (English summary) **98a:11065**
— Cusp forms on $GL(2n)$ with $GL(n) \times GL(n)$ periods, and simple algebras. (English summary) **98f:11045**
Furusawa, Masaaki (*with* Shalika, J. A.) On Fourier coefficients of Eisenstein series. **98m:11042**
Ginzburg, David (*with* Rallis, Stephen; Soudry, David) Cubic correspondences arising from G_2. (English summary) **98a:11066**
— (*with* Rallis, Stephen; Soudry, David) Periods, poles of L-functions and symplectic-orthogonal theta lifts. **98f:11046**
— (*with* Piatetski-Shapiro, Ilya; Rallis, Stephen) L functions for the orthogonal group. (English summary) **98m:11041**
Guo, Jiandong On a generalization of a result of Waldspurger. (English summary) **98f:11047**
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Kim, Henry H. (*with* Shahidi, Freydoon) Quadratic unipotent Arthur parameters and residual spectrum of symplectic groups. (English summary) **98f:11048**
Kon-No, Takuya The residual spectrum of $U(2, 2)$. (English summary) **98i:11036**
Laumon, Gérard ★ Cohomology of Drinfeld modular varieties. Part I. **98c:11045a**
— ★ Cohomology of Drinfeld modular varieties. Part II. (English summary) **98c:11045b**
Li, Jian-Shu Automorphic forms with degenerate Fourier coefficients. (English summary) **98f:11049**
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Mœglin, Colette Non nullité de certains relèvements par séries théta. (English summary) [Nonnullity of certain liftings by theta series] **98m:11044a**
— Quelques propriétés de base des séries théta. (English summary) [Some basic properties of theta series] **98m:11044b**
Ngô, Bao Châu Le lemme fondamental de Jacquet et Ye en caractéristiques égales. (English and French summaries) [The fundamental lemma of Jacquet and Ye in positive characteristic] **98m:11045**
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Ramakrishnan, Dinakar On the coefficients of cusp forms. **98e:11064**
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Soudry, David *see* **Ginzburg, David; et al., 98a:11066** *and* **98f:11046**
Vo, San Cao The spin L-function on the symplectic group $GSp(6)$. (English summary) **98j:11038**
Waldspurger, Jean-Loup Quelques questions sur les intégrales orbitales unipotentes et les algèbres de Hecke. (English and French summaries) [Some questions concerning unipotent orbital integrals and Hecke algebras] **98f:11050**
— *see also* **Laumon, Gérard, 98c:11045b**
Watanabe, Takao Global theta liftings of general linear groups. (English summary) **98f:11051**

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Arthur, James The problem of classifying automorphic representations of classical groups. (*see* **98f:00020**)
— Stability and endoscopy: informal motivation. **98j:22029**
Ash, Avner Galois representations and cohomology of $GL(n, \mathbf{Z})$. **98h:11065**
(Bailey, Toby N.) *see* **Representation theory and automorphic forms, 98i:22001**
Bushnell, Colin J. (*with* Henniart, Guy) An upper bound on conductors for pairs. (English summary) **98h:11153**
Dutta Gupta, Shamita Mean values of L-functions over function fields. (English summary) **98f:11042**
Gelbart, Stephen ★ Lectures on the Arthur-Selberg trace formula. (English summary) **98d:22017**
— (*with* Rogawski, Jonathan D.; Soudry, David) Endoscopy, theta-liftings, and period integrals for the unitary group in three variables. **98m:11125**
Gross, Benedict H. (*with* Savin, Gordan) The dual pair $PGL_3 \times G_2$. (English summary) **98j:22012**
Harris, Michael Supercuspidal representations in the cohomology of Drinfel'd upper half spaces; elaboration of Carayol's program. **98i:11100**
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— Principal L-functions for $GL(n)$. **98k:11169**
— Automorphic spectrum of symmetric spaces. **98m:22024**
Kato, Shin-ichi (*with* Murase, Atsushi; Sugano, Takashi) Spherical functions on spherical homogeneous spaces and Rankin-Selberg convolution. (English summary) **98f:11040**
Knapp, Anthony W. (*with* Rogawski, Jonathan D.) Applications of the trace formula. **98j:11105**
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Kudla, Stephen S. (*with* Sweet, W. Jay, Jr.) Degenerate principal series representations for $U(n, n)$. (English summary) **98h:22021**
Lee, Min Ho[1] On generalized theta series liftings. (English summary) **98f:11033**
Magaard, K. (*with* Savin, Gordan) Exceptional Θ-correspondences. I. (English summary) **98i:22015**
Murase, Atsushi *see* **Kato, Shin-ichi; et al., 98f:11040**
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Stuhler, Ulrich *see* **Schneider, Peter[1], 98m:22023**
Sugano, Takashi *see* **Kato, Shin-ichi; et al., 98f:11040**
Sweet, W. Jay, Jr. *see* **Kudla, Stephen S., 98h:22021**
Waldspurger, Jean-Loup Homogénéité de certaines distributions sur les groupes p-adiques. [Homogeneity of certain distributions on p-adic groups] **98f:22023**
Yang, Tonghai Eigenfunctions of the Weil representation of unitary groups of one variable. (English summary) **98h:11052**
Žampera, Siniša The residual spectrum of the group of type G_2. (English and French summaries) **98k:22077**

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11F72 Spectral theory; Selberg trace formula

Bunke, Ulrich (*with* Olbrich, Martin) Fuchsian groups of the second kind and representations carried by the limit set. **98e:11065**
Elstrodt, J. (*with* Grunewald, Fritz; Mennicke, Jens L.) ★ Groups acting on hyperbolic space. (English summary) **98g:11058**
Grunewald, Fritz (*with* Huntebrinker, Wolfgang) A numerical study of eigenvalues of the hyperbolic Laplacian for polyhedra with one cusp. (English summary) **98f:11052a**
— *see also* **Elstrodt, J.; et al., 98g:11058**
Huntebrinker, Wolfgang Numerical computation of eigenvalues of the Laplace-Beltrami operator on three-dimensional hyperbolic spaces by finite-element methods. (English summary) **98f:11052b**
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Ji, Lizhen The trace class conjecture and the Weyl upper bound on the discrete spectrum of arithmetic groups. **98i:11037**
Judge, C. M. (*with* Phillips, Ralph S.) Dissolving a cusp form in the presence of multiplicities. **98d:11055**
Knapp, Anthony W. Theoretical aspects of the trace formula for GL(2). **98k:11062**
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Mandouvalos, N. Relativity of the spectrum and discrete groups on hyperbolic spaces. (English summary) **98h:11061**
Matthes, Roland A reduction of the remainder term in the prime geodesic theorem for the theta case. **98k:11064**
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Motohashi, Yōichi A trace formula for the Picard group. I. **98a:11067**
Müller, Werner[1] On the analytic continuation of rank one Eisenstein series. **98f:11053**
— The trace class conjecture without the K-finiteness assumption. (English and French summaries) **98h:11062**
Olbrich, Martin *see* **Bunke, Ulrich, 98e:11065**
Phillips, Ralph S. Scattering theory for the Hilbert modular group. **98f:11054**
— Perturbation theory for twisted automorphic functions. **98f:11055**
— Scattering theory for twisted automorphic functions. (English summary) **98k:11065**
— *see also* **Judge, C. M., 98d:11055**
Schmutz Schaller, Paul Arithmetic groups and the length spectrum of Riemann surfaces. **98a:11068**
— The modular torus has maximal length spectrum. **98c:11046**
Vinogradov, A. I. Comparison of spectra. (Russian. English and Russian summaries) **98d:11056**
— Nonhomogeneous Rankin convolutions. (Russian. Russian summary) **98g:11059**

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Arthur, James Towards a local trace formula. **98h:22020**
Bytsenko, Andrei A. (*with* Cognola, Guido; Zerbini, Sergio) Quantum fields in hyperbolic spacetimes with finite spatial volume. (English summary) **98e:81118**
Chamizo, Fernando The large sieve in Riemann surfaces. **98b:11098**
— Some applications of large sieve in Riemann surfaces. **98b:11099**
— Sums of squares in $\mathbf{Z}[\sqrt{k}]$. (English and French summaries) **98k:11136**
Cognola, Guido *see* **Bytsenko, Andrei A.; et al., 98e:81118**
Deitmar, Anton A determinant formula for the generalized Selberg zeta function. **98i:11069**
— Geometric zeta-functions on p-adic groups. (English summary) **98m:11130**
Donnelly, Harold Elliptic operators and covers of Riemannian manifolds. **98a:58163**
Geibart, Stephen ★ Lectures on the Arthur-Selberg trace formula. (English summary) **98d:22017**
Gon, Yasuro Gamma factors of Selberg zeta functions and functional equation of Ruelle zeta functions. **98h:11109**
Harris, Michael Supercuspidal representations in the cohomology of Drinfel'd upper half spaces; elaboration of Carayol's program. **98i:11100**
Huntley, Jonathan (*with* Jorgenson, Jay; Lundelius, Rolf) Continuity of small eigenfunctions on degenerating Riemann surfaces with hyperbolic cusps. **98e:58171**
Jacquet, Hervé Automorphic spectrum of symmetric spaces. **98m:22024**
Jorgenson, Jay (*with* Lundelius, Rolf) Continuity of relative hyperbolic spectral theory through metric degeneration. **98g:58182**
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Knapp, Anthony W. (*with* Rogawski, Jonathan D.) Applications of the trace formula. **98j:11105**
Kon-No, Takuya The residual spectrum of U(2, 2). (English summary) **98i:11036**
Laumon, Gérard ★ Cohomology of Drinfeld modular varieties. Part I. **98c:11045a**
— ★ Cohomology of Drinfeld modular varieties. Part II. (English summary) **98c:11045b**
Lundelius, Rolf *see* **Huntley, Jonathan; et al., 98e:58171** *and* **Jorgenson, Jay, 98g:58182**
Motohashi, Yōichi On Kuznetsov's trace formulae. **98f:11035**
— The Riemann zeta-function and the Hecke congruence subgroups. **98f:11093**
Ngô, Bao Châu Le lemme fondamental de Jacquet et Ye en caractéristiques égales. (English and French summaries) [The fundamental lemma of Jacquet and Ye in positive characteristic] **98m:11045**
Rogawski, Jonathan D. Functoriality and the Artin conjecture. **98j:11106**
— *see also* **Knapp, Anthony W., 98j:11105**
Waldspurger, Jean-Loup Homogénéité de certaines distributions sur les groupes p-adiques. [Homogeneity of certain distributions on p-adic groups] **98f:22023**
— Le lemme fondamental implique le transfert. [The fundamental lemma implies transfer] **98h:22023**
— *see also* **Laumon, Gérard, 98c:11045b**
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11F75 Cohomology of arithmetic groups

Ash, Avner (*with* Stevens, Glenn) p-adic deformations of cohomology classes of subgroups of GL(n, **Z**). (English summary) **98h:11064**
— (*with* McConnell, Mark) Cohomology at infinity and the well-rounded retract for general linear groups. **98h:11063**
Hoffman, J. William (*with* Weintraub, Steven H.) Cohomology of the Siegel modular group of degree two and level four. (English summary) **98j:11039**
Lee, Min Ho[1] Mixed cusp forms and parabolic cohomology. (English summary) **98f:11056**
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Stevens, Glenn *see* **Ash, Avner, 98h:11064**
Weintraub, Steven H. *see* **Hoffman, J. William, 98j:11039**
Williams, Frank (*with* Wisner, Robert J.) Cohomology of certain congruence subgroups of the modular group. (English summary) **98j:11040**
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Khare, Chandrashekhar Maps between Jacobians of modular curves. (English summary) **98a:11057**
Lee, Min Ho[1] Generalized Siegel modular forms and cohomology of locally symmetric varieties. (English summary) **98h:11055**
Nori, Madhav V. Some Eisenstein cohomology classes for the integral unimodular group. **98e:11063**
Scholl, A. J. On the Hecke algebra of a noncongruence subgroup. **98a:11054**
Urban, Eric Module de congruences pour GL(2) d'un corps imaginaire quadratique et théorie d'Iwasawa d'un corps CM biquadratique. [Congruence module for GL(2) of an imaginary quadratic field and Iwasawa theory of a biquadratic CM field] **98m:11035**

11F80 Galois properties

Ash, Avner Galois representations and cohomology of GL(n, **Z**). **98h:11065**
Blasius, Don Modular forms and abelian varieties. **98h:11066**
Cassou-Noguès, Philippe (*with* Jehanne, Arnaud) Formes primitives et représentations galoisiennes de type octaédral. (English and French summaries) [Primitive forms and Galois representations of octahedral type] **98a:11069**
Dąbrowski, Andrzej Bogdan On the symmetric power of an elliptic curve. **98e:11066**
Diamond, Fred The Taylor-Wiles construction and multiplicity one. **98c:11047**
Jarvis, Frazer On Galois representations associated to Hilbert modular forms. (English summary) **98h:11067**
Jehanne, Arnaud *see* **Cassou-Noguès, Philippe, 98a:11069**
Khare, Chandrashekhar Base change, lifting, and Serre's conjecture. **98b:11057**
— Multiplicities of mod p Galois representations. (English summary) **98m:11046**
Klute, Annette Icosahedral Galois extensions and elliptic curves. (English summary) **98e:11067**
Larsen, Michael (*with* Pink, Richard) A connectedness criterion for l-adic Galois representations. (English summary) **98k:11066**
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Saito, Takeshi Modular forms and p-adic Hodge theory. **98g:11060**
Skinner, C. M. (*with* Wiles, Andrew) Ordinary representations and modular forms. **98h:11068**
Taylor, Richard L. Representations of Galois groups associated to modular forms. **98d:11057**
Wiles, Andrew *see* **Skinner, C. M., 98h:11068**

Items with secondary classifications in 11F80

Bauer, Michel Galois actions for genus one rational conformal field theories. (English summary) **98k:81246**
Crespo, Teresa Galois representations, embedding problems and modular forms. (English summary) **98j:11101**
Darmon, Henri (*with* Merel, Loïc) Winding quotients and some variants of Fermat's last theorem. **98h:11076**
Diamond, Fred Congruences between modular forms: raising the level and dropping Euler factors. (English summary) **98m:11033**
Heiermann, Volker Sur l'espace des représentations irréductibles du groupe de Galois d'un corps local. (English and French summaries) [On the space of irreducible representations of the Galois group of a local field] **98a:11166**
Hida, Haruzo (*with* Tilouine, Jacques; Urban, Eric) Adjoint modular Galois representations and their Selmer groups. (English summary) **98m:11034**
Komatsu, Keiichi Construction of normal bases by special values of Hilbert modular functions. **98f:11122**
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Mazur, Barry C. An "infinite fern" in the universal deformation space of Galois representations. (English summary) **98g:11053**
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Murty, V. Kumar Fermat's last theorem. **98i:11016**
Ono, Ken (*with* Wilson, Brad) Parity of Fourier coefficients of modular forms. **98j:11033**
Plater, Andrew Height pairings in families of deformations. **98d:11138**
Rohrlich, David E. Realization of some Galois representations of low degree in Mordell-Weil groups. **98a:11073**
Serre, Jean-Pierre ★ Abelian l-adic representations and elliptic curves. (English summary) **98g:11066**
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Tilouine, Jacques *see* **Hida, Haruzo; et al., 98m:11034**
Urban, Eric Module de congruences pour GL(2) d'un corps imaginaire quadratique et théorie d'Iwasawa d'un corps CM biquadratique. [Congruence module for GL(2) of an imaginary quadratic field and Iwasawa theory of a biquadratic CM field] **98m:11035**
— *see also* **Hida, Haruzo; et al., 98m:11034**
Wilson, Brad *see* **Ono, Ken, 98j:11033**

11F85 p-adic theory, local fields [see also 14G20, 22E50]

Schneider, Peter[1] (*with* Teitelbaum, Jeremy) An integral transform for p-adic symmetric spaces. **98c:11048**
Sofer, Adriana p-adic aspects of Jacobi forms. **98b:11058**
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Ash, Avner (*with* Stevens, Glenn) p-adic deformations of cohomology classes of subgroups of GL(n, **Z**). (English summary) **98h:11064**
Breuil, Christophe Représentations p-adiques semi-stables et transversalité de Griffiths. [Semistable p-adic representations and Griffiths transversality] **98b:14016**
Coleman, Robert F. p-adic Banach spaces and families of modular forms. **98b:11047**

— On the coefficients of the characteristic series of the U-operator. (English summary) **98m:11032**
Dąbrowski, Andrzej Bogdan (*with* Delbourgo, Daniel) S-adic L-functions attached to the symmetric square of a newform. **98b:11048**
Delbourgo, Daniel *see* **Dąbrowski, Andrzej Bogdan**, **98b:11048**
Dünger, Volker p-adic interpolation of convolutions of Hilbert modular forms. (English summary) **98b:11050**
Heiermann, Volker Sur l'espace des représentations irréductibles du groupe de Galois d'un corps local. (English and French summaries) [On the space of irreducible representations of the Galois group of a local field] **98a:11166**
Hida, Haruzo On the search of genuine p-adic modular L-functions for GL(n). (English and French summaries) **98i:11027**
— On the search of genuine p-adic modular L-functions for GL(n). (English and French summaries) **98i:11027**
Khare, Chandrashekhar Mod p modular forms. **98j:11034**
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Plater, Andrew Height pairings in families of deformations. **98d:11138**
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Waldspurger, Jean-Loup Le lemme fondamental implique le transfert. [The fundamental lemma implies transfer] **98h:22023**
Yang, Tonghai Eigenfunctions of the Weil representation of unitary groups of one variable. (English summary) **98h:11052**

11F99 None of the above, but in this section

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Petulante, Nelson A strong version of Poisson summation. (English summary) **98a:42009**
Vuorinen, Matti K. Singular values, Ramanujan modular equations, and Landen transformations. (English summary) **98a:30024**

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [see also 11Dxx, 14Gxx, 14Kxx]

11G05 Elliptic curves over global fields [see also 14H52]

Bertolini, Massimo p-adic heights and p-adic L-functions. (English summary) **98h:11069**
Broumas, A. Effective p-descent. (English summary) **98h:11070**
Byeon, Dongho Quadratic twists of elliptic curves associated to the simplest cubic fields. **98m:11047**
Campbell, Garikai Finding elliptic curves defined over **Q** of high rank. (English summary) **98f:11057**
Cassou-Noguès, Philippe (*with* Jehanne, Arnaud) Parité du nombre de classes des S_4-extensions de **Q** et courbes elliptiques. [Parity of the class number of S_4-extensions of **Q** and elliptic curves] **98a:11070**
Chahal, Jasbir Singh A remark on the torsion subgroups of elliptic curves. (English summary) **98a:11071**
Chen, Yen-Mei J. The Selmer groups and the ambiguous ideal class groups of cubic fields. (English summary) **98a:11072**
— The Selmer groups of elliptic curves and the ideal class groups of quadratic fields. (English summary) **98d:11058**
Corrales-Rodrigáñez, Capi (*with* Schoof, René) The support problem and its elliptic analogue. (English summary) **98c:11049**
David, Sinnou Points de petite hauteur sur les courbes elliptiques. (English and French summaries) [Points of small height on elliptic curves] **98k:11067**
Dem'yanenko, V. A. On the torsion of elliptic curves. (Russian. English and Russian summaries) **98m:11048**
Fastenberg, Lisa A. Mordell-Weil groups in procyclic extensions of a function field. **98f:11058**
Fermigier, Stéfane Étude expérimentale du rang de familles de courbes elliptiques sur **Q**. (English and French summaries) [Experimental study of the rank of families of elliptic curves over **Q**] **98g:11061**
— Une courbe elliptique définie sur **Q** de rang ≥ 22. [An elliptic curve defined over **Q** of rank ≥ 22] **98j:11041**
Gebel, J. (*with* Pethő, Attila; Zimmer, Horst Günter) On Mordell's equation. (English summary) **98m:11049**
Gupta, Rajiv (*with* Ramsay, Keith) Indivisible points on families of elliptic curves. (English summary) **98c:11050**
Jehanne, Arnaud *see* **Cassou-Noguès, Philippe**, **98a:11070**
Kagawa, Takaaki Determination of elliptic curves with everywhere good reduction over $\mathbf{Q}(\sqrt{37})$. **98k:11068**
Kihara, Shoichi On an infinite family of elliptic curves with rank ≥ 14 over **Q**. **98d:11059**
— On the rank of elliptic curves with three rational points of order 2. **98g:11062**
— On the rank of elliptic curves with three rational points of order 2. II. **98m:11050**
— Construction of high-rank elliptic curves with a non-trivial rational point of order 2. **98m:11051**
Kishi, Toshiharu On torsion subgroups of elliptic curves with integral j-invariant over imaginary cyclic quartic fields. **98k:11069**
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Kwon, Soonhak Torsion subgroups of elliptic curves over quadratic extensions. (English summary) **98e:11068**
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Manduchi, E. Elliptic surfaces and a conjecture of Mazur. (English summary) **98d:11060**
Ono, Ken Euler's concordant forms. **98c:11051**
— (*with* Ono, Takashi) Quadratic forms and elliptic curves. III. **98f:11060**
— Tate-Shafarevich groups of the congruent number elliptic curves. **98g:11064**
— Twists of elliptic curves. (English summary) **98h:11071**
Ono, Takashi Quadratic forms and elliptic curves. IV. **98k:11070**
— *see also* **Ono, Ken**, **98f:11060**
Pellarin, F. The isogeny theorem and the irreducibility theorem for elliptic curves: a survey. (English summary) **98k:11071**
Pethő, Attila (*with* Weis, Thomas; Zimmer, Horst Günter) Torsion groups of elliptic curves with integral j-invariant over general cubic number fields. (English summary) **98e:11069**
— *see also* **Gebel, J.; et al.**, **98m:11049**
Rajan, C. S. On the size of the Shafarevich-Tate group of elliptic curves over function fields. (English summary) **98b:11059**
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Ribenboim, Paulo Density zero results for elliptic curves without complex multiplication. (English summary) **98m:11052**
Rohrlich, David E. Realization of some Galois representations of low degree in Mordell-Weil groups. **98a:11073**
Sato, Hisayoshi The order of the p-Selmer groups and the rank of elliptic curves. **98g:11065**
Schoof, René *see* **Corrales-Rodrigáñez, Capi**, **98c:11049**
Serre, Jean-Pierre ★ Abelian l-adic representations and elliptic curves. (English summary) **98g:11066**
Singerman, David (*with* Syddall, R. I.) Belyĭ uniformization of elliptic curves. (English summary) **98m:11053**
Smart, N. P. (*with* Stephens, N. M.) Integral points on elliptic curves over number fields. **98k:11072**
Stark, H. M. Counting points on CM elliptic curves. **98b:11060**
Stephens, N. M. *see* **Smart, N. P.**, **98k:11072**
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Abramovich, Dan Uniformity of stably integral points on elliptic curves. **98d:14033**
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Agboola, A. On p-adic height pairings and locally free classgroups of Hopf orders. **98k:11162**
Bertolini, Massimo Selmer groups and Heegner points in anticyclotomic $\mathbf{Z}_p$-extensions. (English summary) **98a:11082**
— Elliptic curves and special values of L-series. (English summary) **98m:11069**
Bremner, Andrew Some special curves of genus 5. **98c:11058**
— Some interesting curves of genus 2 to 7. (English summary) **98m:11066**
Buchholz, Ralph H. (*with* Rathbun, Randall L.) An infinite set of Heron triangles with two rational medians. **98a:51015**
Buzzard, Kevin Integral models of certain Shimura curves. **98f:11064**
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Cremona, John E. Computing periods of cusp forms and modular elliptic curves. (English summary) **98h:11058**
Dąbrowski, Andrzej Bogdan On the symmetric power of an elliptic curve. **98e:11066**
Darmon, Henri (*with* Merel, Loïc) Winding quotients and some variants of Fermat's last theorem. **98h:11076**
David, Sinnou Minorations de formes linéaires de logarithmes elliptiques. (English and French summaries) [Lower bounds for linear forms in elliptic algorithms] **98f:11078**
Dummigan, Neil Symplectic group lattices as Mordell-Weil sublattices. **98h:11088**
Eisenbud, David (*with* Mazur, Barry C.) Evolutions, symbolic squares, and Fitting ideals. (English summary) **98h:13035**
Elkies, Noam D. Mordell-Weil lattices in characteristic 2. II. The Leech lattice as a Mordell-Weil lattice. **98c:11063**
Gebel, J. (*with* Pethő, Attila; Zimmer, Horst Günter) Computing integral points on Mordell's elliptic curves. (English summary) **98g:11146**
Goldfeld, Dorian Quasicharacters of congruence groups. **98k:11043**
— (*with* Lieman, Daniel) Effective bounds on the size of the Tate-Shafarevich group. **98b:11069**
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Grant, David R. Sequences of fields with many solutions to the unit equation. **98f:11121**
Guletskiĭ, V. I. Invariants of simple algebras over function fields of principal homogeneous spaces of numerical elliptic curves. (Russian. English and Russian summaries) **98k:11092**
Gusić, Ivica Note on equality of L-functions of elliptic curves. (English summary) **98k:11090**
Howe, Lawrence Twisted Hasse-Weil L-functions and the rank of Mordell-Weil groups. (English summary) **98h:11087**
James, Kevin L-series with nonzero central critical value. (English summary) **98m:11040**
Kani, Ernst The existence of curves of genus two with elliptic differentials. **98b:11065**
Klute, Annette Icosahedral Galois extensions and elliptic curves. (English summary) **98e:11067**
Leprévost, Franck (*with* Morain, F.) Revêtements de courbes elliptiques à multiplication complexe par des courbes hyperelliptiques et sommes de caractères. (French summary) [Coverings of elliptic curves with complex multiplication by hyperelliptic curves and character sums] **98e:11099**
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Mori, A. Power series expansions of modular forms at CM points. (English summary) **98d:11047**
Murty, M. Ram Non-vanishing of L-functions. **98m:11039**
Murty, V. Kumar Fermat's last theorem. **98i:11016**
Nakazato, Hajime Heegner points on modular elliptic curves. (English summary) **98d:11068**
Ono, Ken Rank zero quadratic twists of modular elliptic curves. (English summary) **98b:11071**
— Ramanujan, taxicabs, birthdates, ZIP codes, and twists. **98i:11020**
Pappas, Georgios On torsion line bundles and torsion points on abelian varieties. **98m:11059**
Parimala, R. (*with* Sujatha, R.) Hasse principle for Witt groups of function fields with special reference to elliptic curves. **98f:11067**
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Pink, Richard The Mumford-Tate conjecture for Drinfeld-modules. (English summary) **98f:11062**
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Rolshausen, Klaus (*with* Schappacher, Norbert) On the second K-group of an elliptic curve. **98k:11091**
Rusin, David J. Rational triangles with equal area. (English summary) **98m:11068**
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Stein, Andreas Equivalences between elliptic curves and real quadratic congruence function fields. (English and French summaries) **98d:11144**
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Tang, Shu-Leung Congruences between modular forms, cyclic isogenies of modular elliptic curves and integrality of p-adic L-functions. (English summary) **98b:11056**
Walker, Peter L. ★ Elliptic functions. (English summary) **98g:33035**
Zhang, Shaowei On the 3-part of the Birch and Swinnerton-Dyer conjecture. **98d:11074**
Zimmer, Horst Günter *see* **Gebel, J.; et al., 98g:11146**

11G07 Elliptic curves over local fields [see also 14G20, 14H52]

Bayad, Abdelmejid Valuation q-adique et relation de distribution additive pour certaines fonctions q-périodiques. (French summary) [q-adic valuation and additive distribution relation for certain q-periodic functions] **98d:11061**
Goglev, V. V. (*with* Yanchevskiĭ, V. I.) Two-primary torsion of Brauer groups of local elliptic curves with additive reduction. (Russian. English and Russian summaries) **98i:11038**
Naito, Hirotada Local fields that generate trisection points of elliptic curves. (Japanese) **98j:11042**
Vasyuk, G. B. (*with* Yanchevskiĭ, V. I.) On the 2-torsion of the Brauer group of local elliptic curves with good reduction that are defined over the field of 2-adic numbers. (Russian. English and Russian summaries) **98m:11055**
Voloch, José Felipe An analogue of the Weierstrass ζ-function in characteristic p. **98c:11052**
Yanchevskiĭ, V. I. *see* **Goglev, V. V., 98i:11038** *and* **Vasyuk, G. B., 98m:11055**

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Broumas, A. Effective p-descent. (English summary) **98h:11070**
Coleman, Robert F. p-adic Banach spaces and families of modular forms. **98b:11047**
Kishi, Toshiharu On torsion subgroups of elliptic curves with integral j-invariant over imaginary cyclic quartic fields. **98k:11069**
Kraus, Alain Détermination du poids et due conducteur associés aux représentations des points de p-torsion d'une courbe elliptique. (French summary) [Determination of the weight and conductor associated with representations of p-torsion points of an elliptic curve] **98g:11063**

11G09 Drinfel'd modules; higher-dimensional motives, etc. [see also 14L05]

Abhyankar, Shreeram S. (*with* Sundaram, Ganapathy S.) Galois theory of Moore-Carlitz-Drinfeld modules. (English and French summaries) **98g:11067**
Angles, Bruno On some characteristic polynomials attached to finite Drinfeld modules. **98d:11062**
Bae, Sunghan (*with* Lee, Seungjae) On the coefficients of the Drinfeld modular equation. **98d:11063**
— *see also* **Lee, Seungjae, 98b:11061**
Chen, Zesen (*with* Hayes, David R.) Norm and trace of the j-invariants of Drinfeld modules associated to hyperelliptic curves. (English summary) **98d:11064**
Cornelissen, Gunther Drinfeld modular forms of weight one. **98i:11039**
Denis, Laurent Problèmes diophantiens sur les t-modules. (French summary) [Diophantine problems on t-modules] **98f:11061**
— Fonctions exponentielles en diverses caractéristiques. (English summary) [Exponential functions in various characteristics] **98m:11056**
Feng, Keqin Anderson's root numbers and Thakur's Gauss sums. (English summary) **98e:11070**
Gekeler, Ernst-Ulrich On the Drinfeld discriminant function. (English summary) **98e:11071**
— On the cuspidal divisor class group of a Drinfeld modular curve. (English summary) **98m:11057**
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Hellegouarch, Yves (*with* Recher, François) Generalized t-modules. **98g:11068**
Hsia, Liang-Chung (*with* Yu, Jing) On singular moduli of Drinfeld modules in characteristic two. **98m:11058**
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Lee, Seungjae (*with* Bae, Sunghan) Drinfeld modular functions. **98b:11061**
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Mendès France, Michel (*with* Yao, Jia-yan) Transcendence and the Carlitz-Goss gamma function. (English summary) **98b:11062**
Pink, Richard The Mumford-Tate conjecture for Drinfeld-modules. (English summary) **98f:11062**
Poonen, Bjorn Torsion in rank 1 Drinfeld modules and the uniform boundedness conjecture. **98h:11073**
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Schweizer, Andreas Modular automorphisms of the Drinfeld modular curves $X_0(n)$. (English summary) **98f:11063**
Sinha, Samarendra K. Periods of t-motives and transcendence. **98e:11072**
— Deligne's reciprocity for function fields. (English summary) **98a:11074**
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— *see also* **Hsia, Liang-Chung, 98m:11058**

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Brownawell, W. Dale Transcendence in positive characteristic. (English summary) **98h:11092**
Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) ε-constants and the Galois structure of de Rham cohomology. **98j:14025**
Deninger, Christopher Motivic L-functions and regularized determinants. II. **98h:11086**
— On extensions of mixed motives. (English summary) **98f:11069**
Denis, Laurent Indépendance algébrique en caractéristique deux. (English summary) [Algebraic independence in characteristic two] **98h:11094**
Erez, Boas *see* **Chinburg, Ted; et al., 98j:14025**
Gross, Benedict H. On the motive of a reductive group. **98m:20060**
Harris, Michael L-functions and periods of polarized regular motives. **98b:11070**
Jeong, Sangtae Rational points on algebraic curves that change genus. (English summary) **98k:11085**
Laumon, Gérard ★ Cohomology of Drinfeld modular varieties. Part I. **98c:11045a**
— ★ Cohomology of Drinfeld modular varieties. Part II. (English summary) **98c:11045b**
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Pink, Richard l-adic algebraic monodromy groups, cocharacters, and the Mumford-Tate conjecture. (English summary) **98m:11060**
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Wildeshaus, Jörg ★ Realizations of polylogarithms. **98j:11045**
Yin, Linsheng Index-class number formulas over global function fields. (English summary) **98h:11151**

11G10 Abelian varieties of dimension >1 [see also 14Kxx]

Aoki, Noboru Torsion points on abelian varieties with complex multiplication. (English summary) **98e:11073**
Bayer, Pilar (*with* Gonzàlez Rovira, Josep) On the Hasse-Witt invariants of modular curves. (English summary) **98h:11074**
Bombieri, E. (*with* Zannier, Umberto) Heights of algebraic points on subvarieties of abelian varieties. **98j:11043**
Bost, Jean-Benoît Périodes et isogenies des variétés abéliennes sur les corps de nombres (d'après D. Masser et G. Wüstholz). (French summary) [Periods and isogenies of abelian varieties over number fields (after D. Masser and G. Wüstholz)] **98k:11073**
Boxall, John Une propriété des hauteurs locales de Néron-Tate sur les variétés abéliennes. [A property of Néron-Tate local heights on abelian varieties] **98c:11055**
David, Sinnou (*with* Philippon, Patrice) Minorations des hauteurs normalisées des sous-variétés de variétés abéliennes. (English and French summaries) [Lower bounds for the normalized heights of subvarieties of abelian varieties] **98j:11044**
Fhlathúin, Bríd Ní The height on an abelian variety. (English summary) **98e:11074**
Gonzàlez Rovira, Josep *see* **Bayer, Pilar, 98h:11074**
Le Duff, Pierre Points d'ordre l des jacobiennes de certaines courbes de genre 2. (English and French summaries) [Points of order l of the Jacobian of special curves of genus 2] **98g:11069**
Masser, D. W. Specializations of endomorphism rings of abelian varieties. **98g:11070**
Pappas, Georgios On torsion line bundles and torsion points on abelian varieties. **98m:11059**
Philippon, Patrice *see* **David, Sinnou, 98j:11044**
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Bremner, Andrew Some interesting curves of genus 2 to 7. (English summary) **98m:11066**
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Coste, Antoine *see* **Bauer, Michel; et al., 98g:81189**
Flynn, E. V. (*with* Smart, N. P.) Canonical heights on the Jacobians of curves of genus 2 and the infinite descent. **98f:11066**
— (*with* Poonen, Bjorn; Schaefer, Edward F.) Cycles of quadratic polynomials and rational points on a genus-2 curve. **98j:11048**
Fresnel, Jean (*with* van der Put, Marius) Uniformisation des variétés abéliennes. (English and French summaries) [Uniformization of abelian varieties] **98a:14059**

Greenberg, Ralph The structure of Selmer groups. (English summary) **98m:11123**
Hashimoto, Ki-ichiro The structure of real multiplications connected with algebraic correspondences of algebraic curves of genus 2. (Japanese) **98a:14041**
Itzykson, Claude *see* **Bauer, Michel; et al., 98g:81189**
Klassen, Matthew (*with* Tzermias, Pavlos) Algebraic points of low degree on the Fermat quintic. (English summary) **98k:11086**
Pillay, Anand Model theory and Diophantine geometry. **98h:11164a**
— Erratum to: "Model theory and Diophantine geometry". **98h:11164b**
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— *see also* **Flynn, E. V.; et al., 98j:11048**
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Shioda, Tetsuji Genus two curves over $\mathbf{Q}(t)$ with high rank. **98h:11081**
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Werner, Annette On Grothendieck's pairing of component groups in the semistable reduction case. **98j:14058**

11G15 Complex multiplication and moduli of abelian varieties [see also 14K22]

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Hazama, Fumio Hodge cycles on the Jacobian variety of the Catalan curve. (English summary) **98d:11065**
Schappacher, Norbert Some milestones of lemniscatomy. **98k:11074**
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Chen, Zesen (*with* Hayes, David R.) Norm and trace of the j-invariants of Drinfeld modules associated to hyperelliptic curves. (English summary) **98d:11064**
Hayes, David R. *see* **Chen, Zesen, 98d:11064**
Lee, Seungjae *see* **Bae, Sunghan, 98d:11063**
Leprévost, Franck (*with* Morain, F.) Revêtements de courbes elliptiques à multiplication complexe par des courbes hyperelliptiques et sommes de caractères. (French summary) [Coverings of elliptic curves with complex multiplication by hyperelliptic curves and character sums] **98e:11099**
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Nakazato, Hajime Heegner points on modular elliptic curves. (English summary) **98d:11068**
Oort, Frans Canonical liftings and dense sets of CM-points. **98g:14056**
Runge, Bernhard On Picard modular forms. (English summary) **98a:11061**
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Tsunogai, Hiroshi On the Sato conjecture for QM-curves of genus two. **98e:11077**

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11G18 Arithmetic aspects of modular and Shimura varieties [see also 14G35]

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Besser, Amnon On the finiteness of Ш for motives associated to modular forms. (English summary) **98d:11067**
Brooks, Robert Wolfe (*with* Kopeliovich, Yaacov) Uniformization of some quotients of modular curves. (English summary) **98h:11075**
Buzzard, Kevin Integral models of certain Shimura curves. **98f:11064**
Chua, Seng-Kiat (*with* Ling, San) On the rational cuspidal subgroup and the rational torsion points of $J_0(pq)$. (English summary) **98f:11065**
Darmon, Henri (*with* Merel, Loïc) Winding quotients and some variants of Fermat's last theorem. **98h:11076**
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— Corrigendum to: "Faltings plus epsilon, Wiles plus epsilon, and the generalized Fermat equation". **98h:11034b**
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Faltings, Gerd Integrality of Tate-cycles. (English summary) **98i:14024**
Gasbarri, C. Some topics in Arakelov theory of arithmetic surfaces. (English summary) **98f:14017**
Gekeler, Ernst-Ulrich On the cuspidal divisor class group of a Drinfeld modular curve. (English summary) **98m:11057**
Goldfeld, Dorian Quasicharacters of congruence groups. **98k:11043**
González Rovira, Josep *see* **Bayer, Pilar, 98h:11074**
Harris, Michael Supercuspidal representations in the cohomology of Drinfel'd upper half spaces; elaboration of Carayol's program. **98i:11100**
— L-functions and periods of polarized regular motives. **98b:11070**
Khare, Chandrashekhar Maps between Jacobians of modular curves. (English summary) **98a:11057**
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Ribet, Kenneth A. On the equation $a^p + 2^\alpha b^p + c^p = 0$. (English summary) **98e:11035**
Stamm, Heilmuth On the reduction of the Hilbert-Blumenthal-moduli scheme with $\Gamma_0(p)$-level structure. (English summary) **98h:14030**
Takagi, Toshikazu The cuspidal class number formula for the modular curves $X_0(M)$ with M square-free. **98d:11066**
Taylor, Richard L. Representations of Galois groups associated to modular forms. **98d:11057**

11G20 Curves over finite and local fields [see also 14H25]

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van der Geer, Gerard (*with* van der Vlugt, Marcel) How to construct curves over finite fields with many points. **98h:11077**
Gonzàlez Rovira, Josep Hasse-Witt matrices for the Fermat curves of prime degree. (English summary) **98b:11064**
Hansen, Søren Have ★ Rational points on curves over finite fields. **98k:11078**
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Torres, Fernando *see* **Fuhrmann, Rainer; et al., 98k:11077**
Tsfasman, M. A. (*with* Vlăduţ, Serge G.) Asymptotic properties of zeta-functions. **98h:11079**
Vlăduţ, Serge G. *see* **Tsfasman, M. A., 98h:11079**
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Xing, Chao Ping Cyclic elliptic curves over finite fields. (Chinese) **98c:11056**
Yanchevskiĭ, V. I. Index reduction formulas for local hyperelliptic curves with poor reduction. (Russian. English and Russian summaries) **98m:11063**
Zúñiga Galindo, W. A. Zeta functions and Cartier divisors on singular curves over finite fields. **98h:11080**

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Douai, Jean-Claude *see* **Dèbes, Pierre, 98k:11081**
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Garcia, Arnaldo (*with* Stichtenoth, Henning; Thomas, Michael[2]) On towers and composita of towers of function fields over finite fields. (English summary) **98e:11132**
Garuti, Marco A. Rigid geometry and Galois extensions of function fields in one variable. (English summary) **98h:14029**

Henocq, Thierry (*with* Rotillon, Denis) The theta divisor of a Jacobian variety and the decoding of geometric Goppa codes. (English summary) **98b:14022**
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Adleman, Leonard M. (*with* Huang, Ming-Deh A.) Counting rational points on curves and abelian varieties over finite fields. (English summary) **98d:11070**
Bertolin, Cristiana G-fonctions et cohomologie des hypersurfaces singulières. (English summary) [G-functions and cohomology of singular hypersurfaces] **98m:11064**
Dèbes, Pierre (*with* Douai, Jean-Claude) Algebraic covers: field of moduli versus field of definition. (English and French summaries) **98k:11081**
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Goto, Yasuhiro Arithmetic of weighted diagonal surfaces over finite fields. (English summary) **98a:11077**
Huang, Ming-Deh A. *see* **Adleman, Leonard M., 98d:11070**
Lachaud, Gilles (*with* Tsfasman, M. A.) Formules explicites pour le nombre de points des variétés sur un corps fini. [Explicit formulas for the number of points of varieties over a finite field] **98m:11065**
Langer, Andreas Selmer groups and torsion zero cycles on the selfproduct of a semistable elliptic curve. (English summary) **98g:11074**
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Berthelot, Pierre Finitude et pureté cohomologique en cohomologie rigide. [Finiteness and cohomological purity in rigid cohomology] **98j:14023**
Bilu, Yuri F. Limit distribution of small points on algebraic tori. **98m:11067**
Björner, Anders (*with* Ekedahl, Torsten) Subspace arrangements over finite fields: cohomological and enumerative aspects. (English summary) **98h:52021**
Borovoĭ, M. V. (*with* Kunyavskiĭ, B. È.) Spherical spaces for which the Hasse principle and weak approximation fail. (English summary) **98i:14049**
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Fouvry, Étienne (*with* Michel, Philippe G.) Sur certaines sommes d'exponentielles sur les nombres premiers. (English and French summaries) [Some exponential sums over primes] **98m:11088**
Imai, Hideo[2] On the universal norms of some abelian varieties over local fields. (English summary) **98m:14049**
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Voloch, José Felipe Integrality of torsion points on abelian varieties over p-adic fields. **98a:14036**

11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [see also 14H25]

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Arledge, Jane S-units attached to genus 3 hyperelliptic curves. (English summary) **98c:11057**
Bilu, Yuri F. Quantitative Siegel's theorem for Galois coverings. (English summary) **98d:11071**
Bremner, Andrew Some special curves of genus 5. **98c:11058**
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Caporaso, L. Counting rational points on algebraic curves. (English summary) **98i:11041**
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Flynn, E. V. (*with* Smart, N. P.) Canonical heights on the Jacobians of curves of genus 2 and the infinite descent. **98f:11066**
— (*with* Poonen, Bjorn; Schaefer, Edward F.) Cycles of quadratic polynomials and rational points on a genus-2 curve. **98j:11048**
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Jeong, Sangtae Rational points on algebraic curves that change genus. (English summary) **98k:11085**
Kani, Ernst The existence of curves of genus two with elliptic differentials. **98b:11065**
Klassen, Matthew (*with* Tzermias, Pavlos) Algebraic points of low degree on the Fermat quintic. (English summary) **98k:11086**
Leprévost, Franck Jacobiennes de certaines courbes de genre 2: torsion et simplicité. [Jacobians of certain curves of genus 2: torsion and simplicity] **98a:11078**
— Sur certains sous-groupes de torsion de jacobiennes de courbes hyperelliptiques de genre $g \geq 1$. (English summary) [Certain torsion subgroups of Jacobians of hyperelliptic curves of genus $g \geq 1$] **98a:11079**
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— (*with* Schaefer, Edward F.) Explicit descent for Jacobians of cyclic covers of the projective line. (English summary) **98k:11087**
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Poulakis, Dimitrios Integer points on algebraic curves with exceptional units. (English summary) **98k:11088**
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Shioda, Tetsuji Genus two curves over $\mathbf{Q}(t)$ with high rank. **98h:11081**
Smart, N. P. S-unit equations, binary forms and curves of genus 2. **98d:11072**
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Tzermias, Pavlos Torsion in Mordell-Weil groups of Fermat Jacobians. (English summary) **98b:11066**
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van Wamelen, Paul On the CM character of the curves $y^2 = x^q - 1$. (English summary) **98e:11078**

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Ihara, Yasutaka (*with* Nakamura, Hiroaki) On deformation of maximally degenerate stable marked curves and Oda's problem. **98j:14040**
Le Duff, Pierre Points d'ordre l des jacobiennes de certaines courbes de genre 2. (English and French summaries) [Points of order l of the Jacobian of special curves of genus 2] **98g:11069**
Mochizuki, Shinichi A version of the Grothendieck conjecture for p-adic local fields. **98g:11073**
Nakamaye, Michael Dyson's lemma with moving parts. **98m:11075**
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Swinnerton-Dyer, H. P. F. Diophantine equations: the geometric approach. **98b:11068**
Tsfasman, M. A. (*with* Vlăduţ, Serge G.) Asymptotic properties of zeta-functions. **98h:11079**
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11G35 Varieties over global fields [see also 14G25]

Batyrev, V. V. (*with* Tschinkel, Yu.) Height zeta functions of toric varieties. (English summary) **98b:11067**
Beukers, Frits (*with* Zagier, Don) Lower bounds of heights of points on hypersurfaces. **98h:11082**
Bilu, Yuri F. Limit distribution of small points on algebraic tori. **98m:11067**
Call, Gregory S. (*with* Goldstine, Susan W.) Canonical heights on projective space. **98c:11060**
Colliot-Thélène, Jean-Louis (*with* Skorobogatov, A. N.; Swinnerton-Dyer, H. P. F.) Double fibres and double covers: paucity of rational points. **98a:11081**
— The Hasse principle in a pencil of algebraic varieties. (English summary) **98g:11075**

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Morita, Yasuo Remarks on a conjecture of Batyrev and Manin. (English summary) **98k:14030**
Moroz, B. Z. On the integer points of some toric varieties. **98g:14020**
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Skinner, C. M. Forms over number fields and weak approximation. (English summary) **98b:14021**
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Szpiro, Lucien (*with* Ullmo, E.; Zhang, Shouwu) Équirépartition des petits points. [Uniform distribution of small points] **98i:14027**
Talamanca, Valerio Height preserving linear transformations on semisimple K-algebras. (English summary) **98g:11129**
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11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [see also 14G10]

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— Elliptic curves and special values of L-series. (English summary) **98m:11069**
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Manduchi, E. Elliptic surfaces and a conjecture of Mazur. (English summary) **98d:11060**
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— Non-vanishing of L-functions. **98m:11039**
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Zúñiga Galindo, W. A. Zeta functions and Cartier divisors on singular curves over finite fields. **98h:11080**

11G45 Geometric class field theory [see also 11R37, 14C35, 19F05]

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Mochizuki, Shinichi A version of the Grothendieck conjecture for p-adic local fields. **98g:11073**

11G99 None of the above, but in this section

Dupont, Johan L. Dilogarithm identities in conformal field theory and group homology. **98b:11073**
Morton, Patrick Periods of maps on irreducible polynomials over finite fields. **98d:11075**
Noguchi, Junjiro Value distribution theory over function fields and a Diophantine equation. **98m:11072**
— Nevanlinna-Cartan theory over function fields and a Diophantine equation. **98d:11076**
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Bauer, Michel (*with* Itzykson, Claude) Triangulations. (French) **98m:14027**
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11Hxx Geometry of numbers {For applications in coding theory, see 94B75.}

11H06 Lattices and convex bodies [see also 11P21, 52C05, 52C07]

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Bertrand, Daniel Duality on tori and multiplicative dependence relations. (English summary) **98f:11070**
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Nebe, Gabriele (*with* Venkov, Boris B.) Nonexistence of extremal lattices in certain genera of modular lattices. **98k:11095**
— *see also* **Bachoc, Christine**, **98g:11078**
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Schlickewei, Hans Peter Lower bounds for heights on finitely generated groups. (English summary) **98d:11077**
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Cai, Tian-Xin On the minimum area of convex lattice polygons. (English summary) **98m:52026**
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— Lower bounds of the maximal coordinates of minimum vectors. **98j:52029**
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11H16 Nonconvex bodies

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Thuswaldner, Jörg M. The sum of digits function in number fields. (English summary) **98i:11088**

11H31 Lattice packing and covering [see also 05B40, 52C15, 52C17]

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Elkies, Noam D. Mordell-Weil lattices in characteristic 2. II. The Leech lattice as a Mordell-Weil lattice. **98c:11063**
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Horváth, Ákos G. On the sublattices of the Barnes-Wall lattice. (English summary) **98k:11096**
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Martinet, Jacques ★ Les réseaux parfaits des espaces euclidiens. (French. French summary) [Perfect lattices of Euclidean spaces] **98a:11086**
Park, Hwa-Sin (*with* Kim, Daeyeoul) Supersingular curves and sphere packings. **98k:11079**
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Talata, I. Covering the lattice points of a convex body with affine subspaces. (English summary) **98h:52029**
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— Sphere packings, densities and crystals. (English summary) **98j:52035**
— Finite sphere packings and the methods of Blichfeldt and Rankin. **98f:52024**
— On large lattice packings of spheres. (English summary) **98a:52032**
Zong, Chuan Ming The kissing numbers of convex bodies—a brief survey. **98k:52048**
— *see also* **Rogers, Claude Ambrose**, **98i:52026**

11H50 Minima of forms

Bambah, R. P. The conjectures of Minkowski, Watson and others.
Coulangeon, Renaud Minimal vectors in the second exterior power of a lattice. **98d:11078**
Kitaoka, Yoshiyuki Minimum of positive definite quadratic forms. **98d:11079**
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— (*with* Rani, Urmila) Inhomogeneous minima of a class of quaternary quadratic forms of type (2, 2). (English summary) **98g:11080**
Rani, Urmila *see* **Raka, Madhu**, **98g:11080** *and* **98i:11045**

Items with secondary classifications in 11H50

Dumir, V. C. *see* **Sehmi, Ranjeet**, **98c:11065**
Earnest, A. G. (*with* Khosravani, Azar) Representation of integers by positive definite binary Hermitian lattices over imaginary quadratic fields. (English summary) **98a:11047**
Khosravani, Azar *see* **Earnest, A. G.**, **98a:11047**
Sehmi, Ranjeet (*with* Dumir, V. C.) Isolated minima of non-homogeneous indefinite quadratic forms of type (3, 2) or (2, 3). **98c:11065**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

Bavard, Christophe Systole et invariant d'Hermite. [Systole and Hermite invariant] **98a:11085**
Dumir, V. C. *see* **Sehmi, Ranjeet**, **98c:11065**
Locher, Helmut Kleine Nullstellen quadratischer Formen in Funktionenkörpern. (English summary) [Small zeros of quadratic forms in function fields] **98e:11081**
Martinet, Jacques ★ Les réseaux parfaits des espaces euclidiens. (French. French summary) [Perfect lattices of Euclidean spaces] **98a:11086**
— Une famille de réseaux dual-extrêmes. (English and French summaries) [A family of dual-extreme lattices] **98e:11082**
Quine, J. R. Systoles of two extremal Riemann surfaces. (English summary) **98i:11046**
Schiemann, Alexander Ternary positive definite quadratic forms are determined by their theta series. **98e:11083**
Schmutz Schaller, Paul Extremal Riemann surfaces with a large number of systoles. (English summary) **98c:11064**
Sehmi, Ranjeet (*with* Dumir, V. C.) Isolated minima of non-homogeneous indefinite quadratic forms of type (3, 2) or (2, 3). **98c:11065**

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Coulangeon, Renaud Minimal vectors in the second exterior power of a lattice. **98d:11078**
Hemkemeier, Boris *see* **Scharlau, Rudolf**, **98g:11042**
Hong, Jin (*with* Jeong, Kyeonghoon; Kwon, Jae-Hoon) Integral points on hyperbolas. **98e:11030**
Jeong, Kyeonghoon *see* **Hong, Jin; et al.**, **98e:11030**
Kim, Myung-Hwan[1] (*with* Oh, Byeong-Kweon) Representations of positive definite senary integral quadratic forms by a sum of squares. (English summary) **98a:11045**
Kwon, Jae-Hoon *see* **Hong, Jin; et al.**, **98e:11030**
Nebe, Gabriele The normaliser action and strongly modular lattices. (English summary) **98g:11082**
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— (*with* Rani, Urmila) Inhomogeneous minima of a class of quaternary quadratic forms of type (2, 2). (English summary) **98g:11080**
Rani, Urmila *see* **Raka, Madhu**, **98g:11080** *and* **98i:11045**
Scharlau, Rudolf (*with* Hemkemeier, Boris) Classification of integral lattices with large class number. (English summary) **98g:11042**
Solé, Patrick D_4, E_6, E_8 and the AGM. (English summary) **98f:11034**
Wan, Zhe-xian On the uniqueness of the Leech lattice. (English summary) **98b:11075**

11H56 Automorphism groups of lattices

Dummigan, Neil Symplectic group lattices as Mordell-Weil sublattices. **98h:11088**
Nebe, Gabriele The normaliser action and strongly modular lattices. (English summary) **98g:11082**
Plesken, Wilhelm (*with* Souvignier, B.) Computing isometries of lattices. (English summary) **98i:11047**
Souvignier, B. *see* **Plesken, Wilhelm**, **98i:11047**

Items with secondary classifications in 11H56

Mischler, M. Un lien entre les **Z**-réseaux unimodulaires et les formes hermitiennes: les F-réseaux. (English and French summaries) [A connection between unimodular **Z**-lattices and Hermitian forms: F-lattices] **98c:11031**

11H60 Mean value and transfer theorems

Items with secondary classifications in 11H60

Waldschmidt, Michel Approximation simultanée par des produits de puissances de nombres algébriques. [Simultaneous approximation by products of powers of algebraic numbers] **98b:11083**

11H99 None of the above, but in this section

Kolountzakis, Mihail N. Multi-lattice tiles. **98m:11073**
Takahashi, Moto-o A theorem in the geometry of numbers. **98g:11083**

11Jxx Diophantine approximation, transcendental number theory [see also 11K60]

11J04 Homogeneous approximation to one number

Diaz, Guy Une nouvelle propriété d'approximation diophantienne. (English and French summaries) [A new Diophantine approximation property] **98d:11080**
Elsner, Carsten On the approximation of irrationals by rationals. (English summary) **98m:11074**
Tong, Jingcheng The constant for finite Diophantine approximation. **98b:11076**

Items with secondary classifications in 11J04

Vulakh, L. Ya. On Hurwitz constants for Fuchsian groups. (English summary) **98a:11087**

11J06 Markov and Lagrange spectra and generalizations

Vulakh, L. Ya. On Hurwitz constants for Fuchsian groups. (English summary) **98a:11087**

Items with secondary classifications in 11J06

Schmidt, Thomas A. (*with* Sheingorn, Mark) Riemann surfaces have Hall rays at each cusp. **98e:30047**
Sheingorn, Mark *see* **Schmidt, Thomas A., 98e:30047**

11J13 Simultaneous homogeneous approximation, linear forms

Chevallier, Nicolas Geométrie des suites de Kronecker. (English summary) [Geometry of Kronecker sequences] **98i:11048**
Golse, François (*with* Lochak, Pierre) Sur l'approximation rationnelle simultanée des vecteurs de Bruno. (English and French summaries) [Simultaneous rational approximation of Bryuno vectors] **98e:11084**
Lochak, Pierre *see* **Golse, François, 98e:11084**
Moshchevitin, N. G. On best joint approximations. (Russian) **98d:11081**
Vasilenko, O. N. On the approximation of differences of dilogarithms and their values at rational points. (Russian. Russian summary) **98j:11052**

Items with secondary classifications in 11J13

Boca, Florin P. The structure of higher-dimensional noncommutative tori and metric Diophantine approximation. (English summary) **98k:46096**
De Smedt, Stany Approximation lattices of p-adic numbers. **98f:11129**
Dombrovskiĭ, I. R. Diophantine approximations on the Cartesian product of curves, and the Hausdorff dimension. (Russian. English and Russian summaries) **98d:11089**
Naito, Koichiro Dimension estimate of almost periodic attractors by simultaneous Diophantine approximation. (English summary) **98k:35215**

11J17 Approximation by numbers from a fixed field

Corvaja, Pietro An explicit version of the theorem of Roth-Ridout. (English summary) **98g:11084**
Nakamaye, Michael Dyson's lemma with moving parts. **98m:11075**

11J20 Inhomogeneous linear forms

Elsner, Carsten On inhomogeneous approximations to irrational numbers with arithmetical conditions. **98b:11077**
Komatsu, Takao[2] On inhomogeneous Diophantine approximation and inhomogeneous continued fraction expansion. (Japanese) **98k:11097**

Items with secondary classifications in 11J20

Dodson, M. M. A note on metric inhomogeneous Diophantine approximation. (English summary) **98b:11085**

11J25 Diophantine inequalities [see also 11D75]

Chen, Yong-Gao An answer to a problem on view-obstruction. (English and Chinese summaries) **98k:11098**
ten Have, G. N. (*with* Tijdeman, R.) Diophantine approximation of matrices. (English summary) **98c:11066**
Tijdeman, R. *see* **ten Have, G. N., 98c:11066**
Yu, Hong Bing A note on Diophantine inequalities with mixed powers. (Chinese. English and Chinese summaries) **98b:11078**

Items with secondary classifications in 11J25

Bennett, Michael A. Effective measures of irrationality for certain algebraic numbers. (English summary) **98c:11070**
— Explicit lower bounds for rational approximation to algebraic numbers. **98d:11082**
Chen, Gong-Liang Relations de dépendance linéaire entre des logarithmes de nombres algébriques. (English and French summaries) [Linear dependence relations between logarithms of algebraic numbers] **98k:11107**
Dickinson, Detta (*with* Gramchev, Todor; Yoshino, Masafumi) First order pseudodifferential operators on the torus: normal forms, Diophantine phenomena and global hypoellipticity. (English summary) **98k:58221**
Faivre, C. The rate of convergence of approximations of a continued fraction. (English summary) **98m:11083**
Gramchev, Todor *see* **Dickinson, Detta; et al., 98k:58221**
Rhin, G. (*with* Smyth, C. J.) On the Mahler measure of the composition of two polynomials. **98b:11109**
Smyth, C. J. *see* **Rhin, G., 98b:11109**
Thunder, Jeffrey Lin On cubic Thue inequalities and a result of Mahler. **98m:11024**
Yoshino, Masafumi *see* **Dickinson, Detta; et al., 98k:58221**

11J54 Small fractional parts of polynomials and generalizations

Items with secondary classifications in 11J54

Dombrovskiĭ, I. R. Diophantine approximations on the Cartesian product of curves, and the Hausdorff dimension. (Russian. English and Russian summaries) **98d:11089**
Schmeling, Jörg Estimates of Weyl sums over subsequences of natural number. (English summary) **98c:11083**

11J61 Approximation in non-Archimedean valuations

Schlickewei, Hans Peter (*with* Wirsing, E.) Lower bounds for the heights of solutions of linear equations. **98k:11099**
Wirsing, E. *see* **Schlickewei, Hans Peter, 98k:11099**
Xu, Guang Shan Diophantine approximation in connection with F functions. (Chinese) **98b:11079**

Items with secondary classifications in 11J61

Bombieri, E. (*with* Cohen, Paula Beazley) Effective Diophantine approximation on $\mathbf{G}_M$. II. **98m:11076**
Cohen, Paula Beazley *see* **Bombieri, E., 98m:11076**
De Smedt, Stany Approximation lattices of p-adic numbers. **98f:11129**
Grisel, Guillaume Length of the powers of a rational fraction. (English summary) **98a:11088**
Necer, Abdelkader Quotient de Hadamard en plusieurs variables. (English summary) [Hadamard quotients in several variables] **98k:11024**

11J68 Approximation to algebraic numbers

Amoroso, Francesco Algebraic numbers close to 1: results and methods. **98j:11053**
Bennett, Michael A. Explicit lower bounds for rational approximation to algebraic numbers. **98d:11082**
Bombieri, E. (*with* van der Poorten, Alfred J.; Vaaler, Jeffrey D.) Effective measures of irrationality for cubic extensions of number fields. **98d:11083**
— The equivariant Thue-Siegel method. **98f:11071**
Chen, Jian Hua[1] Efficient rational approximation of a class of algebraic numbers. (Chinese) **98c:11067**
Corvaja, Pietro Autour du théorème de Roth. (English summary) [On Roth's theorem] **98i:11049**
van der Poorten, Alfred J. *see* **Bombieri, E.; et al., 98d:11083**
Schmidt, Wolfgang M. The number of rational approximations to algebraic numbers and the number of solutions of norm form equations. **98b:11080**
Tishchenko, K. I. Systems of linearly independent polynomials with height gaps and the Wirsing problem. (Russian. English and Russian summaries) **98c:11068**
Vaaler, Jeffrey D. *see* **Bombieri, E.; et al., 98d:11083**
Xu, Guang Shan Rational approximations in relation to values of the exponential function. (Chinese. Chinese summary) **98k:11089**

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Bennett, Michael A. Effective measures of irrationality for certain algebraic numbers. (English summary) **98c:11070**
Bilu, Yuri F. Limit distribution of small points on algebraic tori. **98m:11067**
Corvaja, Pietro An explicit version of the theorem of Roth-Ridout. (English summary) **98g:11084**
Diaz, Guy Une nouvelle propriété d'approximation diophantienne. (English and French summaries) [A new Diophantine approximation property] **98d:11080**
(Le, Mao Hua) *see* **Errata: "A note on perfect powers of the form $x^{m-1}+\cdots+x+1$", 98k:11030**
Masser, D. W. (*with* Rickert, J. H.) Simultaneous Pell equations. **98c:11023**
Nakamaye, Michael Dyson's lemma with moving parts. **98m:11075**
Rickert, J. H. *see* **Masser, D. W., 98c:11023**
Schlickewei, Hans Peter (*with* Wirsing, E.) Lower bounds for the heights of solutions of linear equations. **98k:11099**
Wakabayashi, Isao On a family of quartic Thue inequalities. I. (English summary) **98d:11040**
Wirsing, E. *see* **Schlickewei, Hans Peter, 98k:11099**
(Yu, Li[2]) *see* **Errata: "A note on perfect powers of the form $x^{m-1}+\cdots+x+1$", 98k:11030**
(Yuan, Ping Zhi) *see* **Errata: "A note on perfect powers of the form $x^{m-1}+\cdots+x+1$", 98k:11030**

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Errata:

"A note on perfect powers of the form $x^{m-1}+\cdots+x+1$" Editor's note: "A note on perfect powers of the form $x^{m-1}+\cdots+x+1$" [Acta Arith. **69** (1995), no. 1, 91–98; MR 96b:11034] by M. H. Le and "On the Diophantine equation $(x^m-1)/(x-1)=y^n$" [ibid. **73** (1995), no. 4, 363–366; MR 96m:11023] by L. Yu and Le. **98k:11030**

11J70 Continued fractions and generalizations [see also 11A55, 11K50]

Alzer, Horst On Segre's theorem on asymmetric Diophantine approximation. **98j:11054**

Baladi, Viviane (*with* Nogueira, Arnaldo C. R.) Lyapunov exponents for non-classical multidimensional continued fraction algorithms. (English summary) **98e:11085**

Grisel, Guillaume Length of the powers of a rational fraction. (English summary) **98a:11088**

Kimberling, Clark Best lower and upper approximates to irrational numbers. (German summary) **98e:11086**

Komatsu, Takao² On inhomogeneous continued fraction expansions and inhomogeneous Diophantine approximation. (English summary) **98e:11087**

Lasjaunias, Alain Diophantine approximation and continued fraction expansions of algebraic power series in positive characteristic. (English summary) **98j:11055**

Nogueira, Arnaldo C. R. *see* **Baladi, Viviane, 98e:11085**

Tang, Tai Ming A note on the Diophantine approximation of an irrational number. (English and Chinese summaries) **98h:11090**

Yasutomi, Shin-ichi The continued fraction expansion of α with $\mu(\alpha)=3$. (Japanese) (*see* **98c:11002**)

Items with secondary classifications in 11J70

Alzer, Horst On rational approximation to e. (English summary) **98k:11106**

Brown, Gavin (*with* Yin, Qinghe) Metrical theory for Farey continued fractions. **98a:11104**

Cohn, Henry Symmetry and specializability in continued fractions. **98a:11012**

Deveau, Marie-Alix Caractérisation de la fonctionnalité des courbes obtenues par compression de graphe. (English and French summaries) [Characterisation of the functionality of curves obtained by compressing graphs] **98b:03093**

Elsner, Carsten On the approximation of irrationals by rationals. (English summary) **98m:11074**

(Gnedenko, Boris Vladimirovich) *see* **Khinchin, Aleksandr Yakovlevich, 98c:11008**

Karner, Gunther *see* **Mukherjee, Manash, 98k:11101**

Khinchin, Aleksandr Yakovlevich ★ Continued fractions. (English summary) **98c:11008**

Komatsu, Takao² On inhomogeneous Diophantine approximation and inhomogeneous continued fraction expansion. (Japanese) **98k:11097**

Lachaud, Gilles Sails and Klein polyhedra. (English summary) **98k:11094**

Mukherjee, Manash (*with* Karner, Gunther) Irrational numbers of constant type—a new characterization. (English summary) **98k:11101**

Nair, Radhakrishnan On the metric theory of the optimal continued fraction expansion. (English summary) **98f:11083**

de Spinadel, Vera W. On characterization of the onset to chaos. (English summary) **98g:11007**

Tong, Jingcheng The constant for finite Diophantine approximation. **98b:11076**

Yin, Qinghe *see* **Brown, Gavin, 98a:11104**

11J71 Distribution modulo one [see also 11K06]

Karatsuba, Anatolii A. Sums of fractional parts of functions of a special type. (Russian) **98f:11072**

Karner, Gunther *see* **Mukherjee, Manash, 98k:11101**

Komatsu, Takao² The sum of consecutive fractional parts. **98h:11091**

Mukherjee, Manash (*with* Karner, Gunther) Irrational numbers of constant type—a new characterization. (English summary) **98k:11101**

Items with secondary classifications in 11J71

Chevallier, Nicolas Geométrie des suites de Kronecker. (English summary) [Geometry of Kronecker sequences] **98i:11048**

Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Diophantine approximation problem arising from VLSI design. **98d:11166**

Chudnovsky, G. V. *see* **Chudnovsky, D. V., 98d:11166**

11J72 Irrationality; linear independence over a field

Brownawell, W. Dale Transcendence in positive characteristic. (English summary) **98h:11092**

Dèbes, Pierre (*with* Zannier, Umberto) Hilbert's irreducibility theorem and G-functions. **98k:11102**

Duverney, Daniel Propriétés arithmétiques des solutions de certaines équations fonctionnelles de Poincaré. (English and French summaries) [Arithmetic properties of the solutions of some Poincaré functional equations] **98b:11081**

— Irrationalité de la somme des inverses de la suite de Fibonacci. (German summary) [Irrationality of the sum of the reciprocals of the Fibonacci sequence] **98c:11069**

— Some arithmetical consequences of Jacobi's triple product identity. **98i:11050**

Galochkin, A. I. Lower bounds for linear forms of values of G-functions. (Russian. Russian summary) **98a:11089**

— On the linear independence of the values of functions satisfying Mahler's functional equation. (Russian. Russian summary) **98k:11103**

Hančl, Jaroslav Irrationality of quick convergent series. (English and French summaries) **98b:11082**

Hata, Masayoshi The irrationality of $\log(1+1/q)\log(1-1/q)$. (English summary) **98h:11093**

Laczkovich, Miklós On Lambert's proof of the irrationality of π. **98a:11090**

Nesterenko, Yu. V. On the Lindemann-Weierstrass theorem. (Russian. Russian summary) **98a:11091**

Yu, Xiu Yuan A theorem on the transcendency and its applications. (English summary) **98i:11051**

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Items with secondary classifications in 11J72

Kim, In-Sook Extensions of the Borsuk-Ulam theorem. (English summary) **98f:55003**

Vasilenko, O. N. On the approximation of differences of dilogarithms and their values at rational points. (Russian. Russian summary) **98j:11052**

11J81 Transcendence (general theory)

Gumnerov, Krastu On two algorithms for obtaining transcendent numbers. **98k:11104**

Hančl, Jaroslav Something about Lindemann's theorem. (English summary) **98f:11073**

Nishioka, Kumiko ★ Mahler functions and transcendence. **98d:11084**

— The development of the Mahler method. (Japanese) (*see* **98c:11002**)

Philippon, Patrice Nouveaux lemmes de zéros dans les groupes algébriques commutatifs. (English summary) [New zero estimates in commutative algebraic groups] **98a:11092**

— Une approche méthodique pour la transcendance et l'indépendance algébrique de valeurs de fonctions analytiques. (English summary) [A methodical approach to the transcendence and algebraic independence of values of analytic functions] **98i:11052**

Thakur, Dinesh S. Automata and transcendence. **98k:11105**

Waldschmidt, Michel Approximation simultanée par des produits de puissances de nombres algébriques. [Simultaneous approximation by products of powers of algebraic numbers] **98b:11083**

— Approximation diophantienne dans les groupes algébriques commutatifs. I. Une version effective du théorème du sous-groupe algébrique. (French summary) [Diophantine approximation in commutative algebraic groups. I. An effective version of the algebraic subgroup theorem] **98i:11053**

Items with secondary classifications in 11J81

Diaz, Guy La conjecture de Mahler-Manin. [The Mahler-Manin conjecture] **98i:11056**

— La conjecture des quatre exponentielles et les conjectures de D. Bertrand sur la fonction modulaire. (English and French summaries) [The four-exponential conjecture and D. Bertrand's conjectures for the modular function] **98h:11096**

Masser, D. W. Specializations of endomorphism rings of abelian varieties. **98g:11070**

Nesterenko, Yu. V. On the Lindemann-Weierstrass theorem. (Russian. Russian summary) **98a:11091**

Nishioka, Kumiko Algebraic independence of reciprocal sums of binary recurrences. (English summary) **98a:11095**

Toshimitsu, Takeshi q-additive functions and algebraic independence. (English summary) **98g:11088**

Truss, J. K. ★ Foundations of mathematical analysis. **98m:00003**

Yao, Jia-yan Critères de non-automaticité et leurs applications. [Nonautomaticity criteria and their applications] **98g:11028**

Yu, Xiu Yuan A theorem on the transcendency and its applications. (English summary) **98i:11051**

11J82 Measures of irrationality and of transcendence

Alzer, Horst On rational approximation to e. (English summary) **98k:11106**

Amou, Masaaki Transcendence measures for almost all numbers. (Japanese) (*see* **98c:11002**)

Barré-Sirieix, Katia Mesures de transcendance pour l'invariant modulaire. (English and French summaries) [Transcendence measures for the modular invariant] **98b:11084**

— Mesure d'approximation simultanée de q et $J(q)$. [Measure of simultaneous approximation for q and $J(q)$] **98f:11074**

Bennett, Michael A. Effective measures of irrationality for certain algebraic numbers. (English summary) **98c:11070**

Bombieri, E. (*with* Cohen, Paula Beazley) Effective Diophantine approximation on $\mathbf{G}_M$. II. **98m:11076**

Cohen, Paula Beazley *see* **Bombieri, E., 98m:11076**

Heimonen, Ari On effective irrationality measures for some values of certain hypergeometric functions. (English summary) **98f:11075**

Sorokin, Vladimir N. On the measure of transcendency of the number π^2. (Russian. Russian summary) **98d:11085**

Viola, C. On Siegel's method in Diophantine approximation to transcendental numbers. (English summary) **98f:11076**

Zudilin, V. V. On lower bounds for polynomials from values of some entire functions. (Russian. Russian summary) **98d:11086**

Items with secondary classifications in 11J82

Bennett, Michael A. (*with* de Weger, Benjamin M. M.) On the Diophantine equation $|ax^n-by^n|=1$. (English summary) **98c:11024**

Bombieri, E. (*with* van der Poorten, Alfred J.; Vaaler, Jeffrey D.) Effective measures of irrationality for cubic extensions of number fields. **98d:11083**

— The equivariant Thue-Siegel method. **98f:11071**

Caveny, Deanna M. Commutative algebraic groups and refinements of the Gelfond-Feldman measure. (English summary) **98a:11093**

Duverney, Daniel Some arithmetical consequences of Jacobi's triple product identity. **98i:11050**

Galochkin, A. I. Lower bounds for linear forms of values of G-functions. (Russian. Russian summary) **98a:11089**

Philippon, Patrice Nouveaux aspects de la transcendance. [New aspects of transcendence] **98g:11086**

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Vaaler, Jeffrey D. *see* **Bombieri, E.; et al., 98d:11083**

Waldschmidt, Michel Approximation simultanée par des produits de puissances de nombres algébriques. [Simultaneous approximation by products of powers of algebraic numbers] **98b:11083**
de Weger, Benjamin M. M. *see* **Bennett, Michael A., 98c:11024**

11J83 Metric theory

Amou, Masaaki A metrical result on transcendence measures in certain fields (abstract). (*see* **98c:11001**)
Beresnevich, V. V. On the dependence of orders of approximations of points of plane curves and the vector of derivatives. (Russian. English and Russian summaries) **98d:11087**
— Effective estimates for measures of sets of real numbers with a given order of approximation by quadratic irrationalities. (Russian. English and Russian summaries) **98d:11088**
Bernīk, V. Ī. (*with* Dodson, M. M.) The exact order of zero approximation by values of integral polynomials of a complex variable. (Belorussian. English and Russian summaries) **98j:11056**
Dodson, M. M. A note on metric inhomogeneous Diophantine approximation. (English summary) **98b:11085**
— *see also* **Bernīk, V. Ī., 98j:11056**
Dombrovskiĭ, I. R. Diophantine approximations on the Cartesian product of curves, and the Hausdorff dimension. (Russian. English and Russian summaries) **98d:11089**
Kargaev, Pavel (*with* Zhiglyavskiĭ, A. A.) Asymptotic distribution of the distance function to the Farey points. (English summary) **98m:11077**
Kovalevskaya, Ė. I. Multidimensional extremal Sprindzhuk surfaces and the Hausdorff dimension. (Russian. English and Russian summaries) **98d:11090**
— Effective estimates for measures of sets in $\mathbf{R}^2$ with given approximation properties. (Russian. English and Russian summaries) **98d:11091**
Larcher, Gerhard Metric results on the approximation of zero by linear combinations of independent and of dependent rationals. (English summary) **98i:11054**
Stakėnas, V. A "zero-one" law for Diophantine approximations. (Lithuanian summary) **98c:11071**
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Items with secondary classifications in 11J83

Dajani, Karma (*with* Kraaikamp, Cor) On approximation by Lüroth series. (English and French summaries) **98g:11092**
Kraaikamp, Cor *see* **Dajani, Karma, 98g:11092**

11J85 Algebraic independence; Gel′fond's method

Caveny, Deanna M. Commutative algebraic groups and refinements of the Gelfond-Feldman measure. (English summary) **98a:11093**
Delaunay, Sandra Grands degrés de transcendance pour la fonction exponentielle; modification des hypothèses techniques dans la méthode de Diaz. (English and French summaries) [Large transcendence degrees for the exponential function; modification of the technical hypotheses in the method of Diaz] **98a:11094a**
— Grands degrés de transcendance pour la fonction exponentielle; modification des hypothèses techniques dans la méthode de Brownawell. (English and French summaries) [Large transcendence degrees for the exponential function; modification of the technical hypotheses in the method of Brownawell] **98a:11094b**
Denis, Laurent Indépendance algébrique en caractéristique deux. (English summary) [Algebraic independence in characteristic two] **98h:11094**
Nishioka, Kumiko Algebraic independence of reciprocal sums of binary recurrences. (English summary) **98a:11095**
Roy, Damien (*with* Waldschmidt, Michel) Approximation diophantienne et indépendance algébrique de logarithmes. (English and French summaries) [Diophantine approximation and algebraic independence of logarithms] **98f:11077**
Tanaka, Taka-Aki Algebraic independence of certain numbers defined by linear recurrences. **98a:11096**
— Algebraic independence of the values of power series generated by linear recurrences. (Japanese) **98h:11095**
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Waldschmidt, Michel *see* **Roy, Damien, 98f:11077**

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Amoroso, Francesco Algebraic numbers close to 1: results and methods. **98j:11053**
Hančl, Jaroslav Something about Lindemann's theorem. (English summary) **98f:11073**
Mendès France, Michel (*with* Yao, Jia-yan) Transcendence and the Carlitz-Goss gamma function. (English summary) **98b:11062**
Nishioka, Kumiko The development of the Mahler method. (Japanese) (*see* **98c:11002**)
Philippon, Patrice Nouveaux aspects de la transcendance. [New aspects of transcendence] **98g:11086**
— Une approche méthodique pour la transcendance et l'indépendance algébrique de valeurs de fonctions analytiques. (English summary) [A methodical approach to the transcendence and algebraic independence of values of analytic functions] **98i:11052**
Thakur, Dinesh S. Automata and transcendence. **98k:11105**
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11J86 Linear forms in logarithms; Baker's method

Bennett, Curtis D. (*with* Blass, Josef; Glass, A. M. W.; Meronk, David B.; Steiner, Ray P.) Linear forms in the logarithms of three positive rational numbers. (English and French summaries) **98g:11085**
Blass, Josef *see* **Bennett, Curtis D.; et al., 98g:11085**
Bugeaud, Yann ★ Formes linéaires de logarithmes et applications. (French. French summary) [Linear forms in logarithms and applications] **98d:11092**
— (*with* Laurent, Michel) Minoration effective de la distance p-adique entre puissances de nombres algébriques. (English summary) [Effective lower bound for the p-adic distance between powers of algebraic numbers] **98b:11086**
Chen, Gong-Liang Relations de dépendance linéaire entre des logarithmes de nombres algébriques. (English and French summaries) [Linear dependence relations between logarithms of algebraic numbers] **98k:11107**
David, Sinnou Minorations de formes linéaires de logarithmes elliptiques. (English and French summaries) [Lower bounds for linear forms in elliptic algorithms] **98f:11078**
Glass, A. M. W. *see* **Bennett, Curtis D.; et al., 98g:11085**
Laurent, Michel *see* **Bugeaud, Yann, 98b:11086**
Meronk, David B. *see* **Bennett, Curtis D.; et al., 98g:11085**
Mignotte, Maurice (*with* Waldschmidt, Michel) Linear forms in two logarithms and Schneider's method. III. (English and French summaries) **98i:11055**
Philippon, Patrice Nouveaux aspects de la transcendance. [New aspects of transcendence] **98g:11086**
Rerikh, K. V. Algebraic addition concerning the Siegel theorem on the linearization of holomorphic mapping. **98e:11088**
Steiner, Ray P. *see* **Bennett, Curtis D.; et al., 98g:11085**
Waldschmidt, Michel *see* **Mignotte, Maurice, 98i:11055**

Items with secondary classifications in 11J86

Balasubramanian, Ramachandran (*with* Langevin, Michel; Shorey, T. N.; Waldschmidt, Michel) On the maximal length of two sequences of integers in arithmetic progressions with the same prime divisors. (English summary) **98a:11124**
Bernstein, Daniel J. Detecting perfect powers in essentially linear time. (English summary) **98j:11121**
Beukers, Frits On a sequence of polynomials. (English summary) **98e:11029**
Bilu, Yuri F. Quantitative Siegel's theorem for Galois coverings. (English summary) **98d:11071**
Bugeaud, Yann On the Diophantine equation $x^2 - p^m = \pm y^n$. **98g:11037**
— Bounds for the solutions of superelliptic equations. **98c:11025**
Cipu, Mihai Diophantine equations with at most one positive solution. (English summary) **98j:11017**
Gebel, J. (*with* Pethő, Attila; Zimmer, Horst Günter) Computing integral points on Mordell's elliptic curves. (English summary) **98g:11146**
Hirata-Kohno, Noriko Diophantine approximation on elliptic curves. (English summary) **98g:11087**
Langevin, Michel *see* **Balasubramanian, Ramachandran; et al., 98a:11124**
Le, Mao Hua On the Diophantine equation $(x^m + 1)(x^n + 1) = y^2$. **98h:11036**
— A note on the Diophantine equation $D_1 x^2 + D_2 = 2y^n$. (English summary) **98j:11022**
Niklasch, Gerhard (*with* Smart, N. P.) Exceptional units in a family of quartic number fields. (English summary) **98g:11125**
Pethő, Attila *see* **Gebel, J.; et al., 98g:11146**
Samake, Karim ★ Suites récurrentes linéaires, problème d'effectivité. (French. French summary) [Linear recurrent sequences, the effectivity problem] **98k:11006**
Saradha, N. On blocks of arithmetic progressions with equal products. (English and French summaries) **98g:11012**
Shorey, T. N. *see* **Balasubramanian, Ramachandran; et al., 98a:11124**
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Stewart, C. L. (*with* Tijdeman, R.) On the greatest prime factor of $(ab + 1)(ac + 1)(bc + 1)$. **98f:11101**
Tijdeman, R. *see* **Stewart, C. L., 98f:11101**
Voutier, Paul M. Primitive divisors of Lucas and Lehmer sequences. II. (English and French summaries) **98h:11037**
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de Weger, Benjamin M. M. Padua and Pisa are exponentially far apart. (English summary) **98j:11009**
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11J89 Transcendence theory of elliptic and abelian functions

Diaz, Guy La conjecture de Mahler-Manin. [The Mahler-Manin conjecture] **98i:11056**
Hirata-Kohno, Noriko Diophantine approximation on elliptic curves. (English summary) **98g:11087**

Items with secondary classifications in 11J89

André, Yves[1] G-fonctions et transcendance. [G-functions and transcendence] **98a:11097**
Caveny, Deanna M. Commutative algebraic groups and refinements of the Gelfond-Feldman measure. (English summary) **98a:11093**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Jacobi's theta series. **98b:11044**
Mall, Daniel Pseudo-elliptic integrals and the values of the Weierstrass ζ-function at torsion points. (English summary) **98f:11059**
Nishioka, Keiji *see* **Duverney, Daniel; et al., 98b:11044**
Nishioka, Kumiko *see* **Duverney, Daniel; et al., 98b:11044**
Philibert, Georges Un lemme de zéros modulaire. [A modular zero estimate] **98i:11023**
Philippon, Patrice Nouveaux lemmes de zéros dans les groupes algébriques commutatifs. (English summary) [New zero estimates in commutative algebraic groups] **98a:11092**
Shiokawa, Iekata *see* **Duverney, Daniel; et al., 98b:11044**

11J91 Transcendence theory of other special functions

André, Yves[1] G-fonctions et transcendance. [G-functions and transcendence] **98a:11097**
Chȳrskiĭ, V. G. On global relations for hypergeometric series. (English summary) **98a:11098**
Diaz, Guy La conjecture des quatre exponentielles et les conjectures de D. Bertrand sur la fonction modulaire. (English and French summaries) [The four-exponential conjecture and D. Bertrand's conjectures for the modular function] **98h:11096**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Rogers-Ramanujan continued fraction and reciprocal sums of Fibonacci numbers. **98m:11078**
Ferenczi, Sébastien (*with* Mauduit, Christian) Transcendence of numbers with a low complexity expansion. (English summary) **98m:11079**
Mauduit, Christian *see* **Ferenczi, Sébastien, 98m:11079**

Nagata, Makoto A generalization of the sizes of differential equations and its applications to G-function theory. **98i:11057**
Nishioka, Keiji *see* **Duverney, Daniel; et al., 98m:11078**
Nishioka, Kumiko *see* **Duverney, Daniel; et al., 98m:11078**
Shiokawa, Iekata *see* **Duverney, Daniel; et al., 98m:11078**
Thakur, Dinesh S. Automata-style proof of Voloch's result on transcendence. (English summary) **98a:11100**
Toshimitsu, Takeshi q-additive functions and algebraic independence. (English summary) **98g:11088**
Voloch, José Felipe Transcendence of elliptic modular functions in characteristic p. **98a:11099**

Items with secondary classifications in 11J91

Barré-Sirieix, Katia Mesures de transcendance pour l'invariant modulaire. (English and French summaries) [Transcendence measures for the modular invariant] **98b:11084**
— Mesure d'approximation simultanée de q et $J(q)$. [Measure of simultaneous approximation for q and $J(q)$] **98f:11074**
Dèbes, Pierre (*with* Zannier, Umberto) Hilbert's irreducibility theorem and G-functions. **98k:11102**
Duverney, Daniel (*with* Nishioka, Keiji; Nishioka, Kumiko; Shiokawa, Iekata) Transcendence of Jacobi's theta series. **98b:11044**
Dwork, Bernard M. On exponents of p-adic differential modules. **98h:12008**
Galochkin, A. I. Lower bounds for linear forms of values of G-functions. (Russian. Russian summary) **98a:11089**
— On the linear independence of the values of functions satisfying Mahler's functional equation. (Russian. Russian summary) **98k:11103**
Heimonen, Ari On effective irrationality measures for some values of certain hypergeometric functions. (English summary) **98f:11075**
Hellegouarch, Yves (*with* Recher, François) Generalized t-modules. **98g:11068**
Nishioka, Keiji *see* **Duverney, Daniel; et al., 98b:11044**
Nishioka, Kumiko Algebraic independence of reciprocal sums of binary recurrences. (English summary) **98a:11095**
— *see also* **Duverney, Daniel; et al., 98b:11044**
Philibert, Georges Un lemme de zéros modulaire. [A modular zero estimate] **98i:11023**
Recher, François *see* **Hellegouarch, Yves, 98g:11068**
Shiokawa, Iekata *see* **Duverney, Daniel; et al., 98b:11044**
Sorokin, Vladimir N. On the measure of transcendency of the number π^2. (Russian. Russian summary) **98d:11085**
Tanaka, Taka-Aki Algebraic independence of the values of power series generated by linear recurrences. (Japanese) **98h:11095**
Vasilenko, O. N. On the approximation of differences of dilogarithms and their values at rational points. (Russian. Russian summary) **98j:11052**
Zannier, Umberto *see* **Dèbes, Pierre, 98k:11102**
Zudilin, V. V. On lower bounds for polynomials from values of some entire functions. (Russian. Russian summary) **98d:11086**

11J99 None of the above, but in this section

Cherry, William A. (*with* Ye, Zhuan) Non-Archimedean Nevanlinna theory in several variables and the non-Archimedean Nevanlinna inverse problem. (English summary) **98c:11072**
Sándor, József On the irrationality of certain alternative Smarandache series.
Ye, Zhuan *see* **Cherry, William A., 98c:11072**

Items with secondary classifications in 11J99

Gallagher, P. X. On the image of form. **98d:11096**
Heath-Brown, D. R. Weyl's inequality, Waring's problem and Diophantine approximation. **98b:11104**
Kobayashi, Ryoichi Nevanlinna theory and number theory. (Japanese) **98k:32036**
Krick, T. (*with* Pardo, Luis Miguel) A computational method for Diophantine approximation. **98h:13039**
Langevin, Michel Quelques remarques sur les familles canoniques de polynômes générateurs pour l'exponentielle. (English and French summaries) [Some remarks on canonical families of polynomial generators for the exponential] **98d:11028**
Lasjaunias, Alain Diophantine approximation and continued fraction expansions of algebraic power series in positive characteristic. (English summary) **98j:11055**
Noguchi, Junjiro Some topics in Nevanlinna theory, hyperbolic manifolds and Diophantine geometry. **98h:32045**
Pardo, Luis Miguel *see* **Krick, T., 98h:13039**
Rössner, Carsten (*with* Seifert, Jean-Pierre) Approximating good simultaneous Diophantine approximations is almost NP-hard. (English summary) **98g:11143**
Seifert, Jean-Pierre *see* **Rössner, Carsten, 98g:11143**
Wüstholz, Gisbert Computations on commutative group varieties. **98j:14062**

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

Drmota, Michael (*with* Tichy, Robert F.) ★ Sequences, discrepancies and applications. **98j:11057**
Tichy, Robert F. *see* **Drmota, Michael, 98j:11057**

11K06 General theory of distribution modulo 1 [see also 11J71]

Baxa, Christoph On the distribution of the sequence $(n\alpha)$ with transcendental α. **98m:11080**
Rieger, G. J. On the integer part function and uniform distribution mod 1. (English summary) **98e:11089**
Yao, Jia-yan Généralisations de la suite de Thue-Morse. (English and French summaries) [Generalizations of the Thue-Morse sequence] **98k:11108**

Items with secondary classifications in 11K06

Bertrand-Mathis, Anne Ensembles normaux relatifs à des matrices non-commutantes. (English and French summaries) [Normal sets with respect to noncommuting matrices] **98f:11079**
Drmota, Michael (*with* Tichy, Robert F.) ★ Sequences, discrepancies and applications. **98j:11057**
Frankiewicz, Ryszard (*with* Plebanek, Grzegorz) On asymptotic density and uniformly distributed sequences. (English summary) **98d:28011**
Karatsuba, Anatolii A. Analogues of incomplete Kloosterman sums and their applications. (Russian. English summary) **98j:11062**
Plebanek, Grzegorz *see* **Frankiewicz, Ryszard, 98d:28011**
Tichy, Robert F. *see* **Drmota, Michael, 98j:11057**
Zheng, Zhiyong Dedekind sums and uniform distribution (mod 1). (English summary) **98c:11038**

11K16 Normal numbers, radix expansions, etc. [see also 11A63]

Bertrand-Mathis, Anne Nombres normaux. (English and French summaries) [Normal numbers] **98c:11073**
— Ensembles normaux relatifs à des matrices non-commutantes. (English and French summaries) [Normal sets with respect to noncommuting matrices] **98f:11079**
Brown, Gavin (*with* Moran, William; Pollington, Andrew D.) Normality with respect to powers of a base. **98m:11081**
Joó, Istvan (*with* Schnitzer, Franz J.) ★ Expansions with respect to non-integer bases. **98e:11090**
Moran, William (*with* Pollington, Andrew D.) The discrimination theorem for normality to non-integer bases. (English summary) **98h:11097**
— *see also* **Brown, Gavin; et al., 98m:11081**
Nakai, Yoshinobu (*with* Shiokawa, Iekata) Normality of numbers generated by the values of polynomials at primes. **98h:11098**
Okada, Tatsuya *see* **Shiota, Yasunobu; et al., 98h:11099**
Pollington, Andrew D. *see* **Moran, William, 98h:11097** *and* **Brown, Gavin; et al., 98m:11081**
Pushkin, L. N. Ergodic properties of sets defined by frequencies of numbers. (Russian. Russian summary) **98f:11080**
Schnitzer, Franz J. *see* **Joó, Istvan, 98e:11090**
Sekiguchi, Takeshi *see* **Shiota, Yasunobu; et al., 98h:11099**
Shiokawa, Iekata *see* **Nakai, Yoshinobu, 98h:11098**
Shiota, Yasunobu (*with* Sekiguchi, Takeshi; Okada, Tatsuya) Hata-Yamaguti's result on [the] Takagi function and its applications to digital sum problems. **98h:11099**

Items with secondary classifications in 11K16

Boyd, David W. The beta expansion for Salem numbers. **98k:11146**
Bukor, Jozef (*with* Šalát, Tibor; Tóth, János T.) Remarks on R-density of sets of numbers. (English summary) **98e:11012**
Durner, Alexander Distribution measures and Hausdorff dimensions. (English summary) **98i:11060**
Šalát, Tibor *see* **Bukor, Jozef; et al., 98e:11012**
Schmeling, Jörg Symbolic dynamics for β-shifts and self-normal numbers. (English summary) **98c:11080**
Silverberg, Arthur *see* **Wang, Chamont, 98k:60023**
Sirvent, Victor F. On some dynamical subsets of the Rauzy fractal. (English summary) **98d:58096**
Thuswaldner, Jörg M. The sum of digits function in number fields. (English summary) **98i:11088**
Tóth, János T. *see* **Bukor, Jozef; et al., 98e:11012**
Wang, Chamont (*with* Silverberg, Arthur) On discrete convolutions, singular measures, and related computer illusions. (English summary) **98k:60023**

11K31 Special sequences

Burke, John R. Some remarks on the distribution of second order recurrences and a related group structure. **98c:11074**
Harman, Glyn Metrical theorems on prime values of the integer parts of real sequences. **98h:11100**
Minuț, Petru On the relation between V-normal sequences and Bernoulli-normal sequences. **98k:11109**
Pinner, Christopher G. On sums of fractional parts $\{n\alpha+\gamma\}$. (English summary) **98d:11093**
Sherstnev, V. I. Joint distribution of carries in integer addition. (Russian. Russian summary) **98e:11091**
Strauch, Oto On distribution functions of $\xi(3/2)^n$ mod 1. **98c:11075**

Items with secondary classifications in 11K31

Dekking, F. M. What is the long range order in the Kolakoski sequence? (English summary) **98g:11022**
Kurths, Jürgen *see* **Zaks, Mikhail A.; et al., 98k:11021**
Lagarias, Jeffrey C. The $3x+1$ problem and its generalizations [MR 86i:11043]. (*see* **98f:00027**)
Nymann, J. E. (*with* Sáenz, Ricardo A.) The topological structure of the set of P-sums of a sequence. (English summary) **98d:11013**
Pikovskiĭ, A. S. *see* **Zaks, Mikhail A.; et al., 98k:11021**
Sáenz, Ricardo A. *see* **Nymann, J. E., 98d:11013**
Zaks, Mikhail A. (*with* Pikovskiĭ, A. S.; Kurths, Jürgen) On the correlation dimension of the spectral measure for the Thue-Morse sequence. (English summary) **98k:11021**

11K36 Well-distributed sequences and other variations

Hack, Michael Transformation of uniformly distributed particle ensembles. (English summary) **98m:11082**

Nair, Radhakrishnan On asymptotic distribution of the a-adic integers. (English summary) **98k:11110**

Items with secondary classifications in 11K36

Sun, Yeneng On uniform distribution of sequences. (English summary) **98m:28037**

11K38 Irregularities of distribution, discrepancy [see also 11Nxx]

Amoroso, Francesco (*with* Mignotte, Maurice) On the distribution of the roots of polynomials. (English and French summaries) **98h:11101**
Andreeva, Velichka A. Exact formulae of the mean-square discrepancy of some finite two-dimensional sequences. (English summary) **98f:11081**
Drmota, Michael Irregularities of distributions with respect to polytopes. (English summary) **98c:11076**
Klinger, Bernhard (*with* Tichy, Robert F.) Polynomial discrepancy of sequences. (English summary) **98j:11058**
Mathias, A. R. D. On a conjecture of Erdős and Čudakov. (English summary) **98i:11058**
Mignotte, Maurice *see* **Amoroso, Francesco, 98h:11101**
Schmid, Wolfgang Ch. (*with* Wolf, Reinhard) Bounds for digital nets and sequences. **98c:11077**
Seife, Charles New test sizes up randomness. **98d:11094**
Tichy, Robert F. *see* **Klinger, Bernhard, 98j:11058**
Wolf, Reinhard *see* **Schmid, Wolfgang Ch., 98c:11077**
Xiao, Yi-Jun Quelques propriétés des $(0, m, 2)$-réseaux en base $b \geq 2$. (English and French summaries) [Some properties of $(0, m, 2)$-nets in base $b \geq 2$] **98a:11101**
Zhu, Yaochen A method for exact calculation of the discrepancy of low-dimensional finite points sets. II. (English summary) **98d:11095**

Items with secondary classifications in 11K38

Baxa, Christoph On the distribution of the sequence $(n\alpha)$ with transcendental α. **98m:11080**
Chevallier, Nicolas Geométrie des suites de Kronecker. (English summary) [Geometry of Kronecker sequences] **98i:11048**
Drmota, Michael (*with* Tichy, Robert F.) ★ Sequences, discrepancies and applications. **98j:11057**
Karatsuba, Anatolii A. Sums of fractional parts of functions of a special type. (Russian) **98f:11072**
Matoušek, Jiří On discrepancy bounds via dual shatter function. (English summary) **98g:05149**
Paštéka, Milan The measure density on Dedekind domains. (English summary) **98g:11009**
Pinner, Christopher G. On sums of fractional parts $\{n\alpha + \gamma\}$. (English summary) **98d:11093**
Rieger, G. J. On the integer part function and uniform distribution mod 1. (English summary) **98e:11089**
Tichy, Robert F. *see* **Drmota, Michael, 98j:11057**

11K41 Continuous, p-adic and abstract analogues

Amstler, Clemens Some remarks on a discrepancy in compact groups. (English summary) **98c:11078**
Dzinotyiweyi, H. A. M. (*with* van Rooij, Arnoud C. M.) Non-Archimedean harmonic analysis on topological semigroups. II. (English summary) **98h:11102**
Kuijlaars, A. B. J. (*with* Saff, E. B.) Asymptotics for minimal discrete energy on the sphere. (English summary) **98e:11092**
van Rooij, Arnoud C. M. *see* **Dzinotyiweyi, H. A. M., 98h:11102**
Saff, E. B. *see* **Kuijlaars, A. B. J., 98e:11092**

Items with secondary classifications in 11K41

Khrennikov, Andrei The Bernoulli theorem for probabilities that take p-adic values. (Russian)

11K45 Pseudo-random numbers; Monte Carlo methods

Eichenauer-Herrmann, Jürgen Equidistribution properties of inversive congruential pseudorandom numbers with power of two modulus. (English summary) **98a:11102**
— (*with* Herrmann, Eva) Compound cubic congruential pseudorandom numbers. (English summary) **98g:11089**
— (*with* Emmerich, Frank; Larcher, Gerhard) Average discrepancy, hyperplanes, and compound pseudorandom numbers. (English summary) **98j:11059**
— (*with* Niederreiter, Harald) Parallel streams of nonlinear congruential pseudorandom numbers. (English summary) **98k:11111**
— Quadratic congruential pseudorandom numbers: distribution of lagged pairs. (English summary) **98a:11103**
Emmerich, Frank Equidistribution properties of quadratic congruential pseudorandom numbers. (English summary) **98f:11082**
— *see also* **Eichenauer-Herrmann, Jürgen; et al., 98j:11059**
Hellekalek, Peter (*with* Leeb, Hannes) Dyadic diaphony. **98g:11090**
Herrmann, Eva *see* **Eichenauer-Herrmann, Jürgen, 98g:11089**
Kato, Takashi (*with* Wu, Li-Ming[2]; Yanagihara, Niro) On the lattice structure of pseudo-random numbers generated by the modified inversive congruential generator with modulus 2^{α}. (English summary) **98c:11079**
Larcher, Gerhard *see* **Eichenauer-Herrmann, Jürgen; et al., 98j:11059**
Leeb, Hannes *see* **Hellekalek, Peter, 98g:11090**
Niederreiter, Harald *see* **Eichenauer-Herrmann, Jürgen, 98k:11111**
Takashima, Keizo On the number of multiples of certain primitive polynomials over GF(2). **98e:11093**
Wu, Li-Ming[2] *see* **Kato, Takashi; et al., 98c:11079**
Yanagihara, Niro *see* **Kato, Takashi; et al., 98c:11079**

Items with secondary classifications in 11K45

Coulibaly, Ibrahim (*with* Lécot, Christian) Particle simulations of the Kac model of the Boltzmann equation. (English summary) **98i:82066**
Couture, Raymond (*with* L'Ecuyer, Pierre) Distribution properties of multiply-with-carry random number generators. (English summary) **98i:65007**
Eichenauer-Herrmann, Jürgen (*with* Niederreiter, Harald) Inversive congruential pseudorandom numbers: distribution of triples. (English summary) **98a:65010**
Hack, Michael Transformation of uniformly distributed particle ensembles. (English summary) **98m:11082**
Lécot, Christian *see* **Coulibaly, Ibrahim, 98i:82066**
L'Ecuyer, Pierre *see* **Couture, Raymond, 98i:65007**
Mendès France, Michel Almost-periodic sequences and pseudo-random sequences. (English summary) **98e:11097**
Niederreiter, Harald *see* **Eichenauer-Herrmann, Jürgen, 98a:65010**
Ramakrishnan, T. R. *see* **Sethumadhavan, M., 98b:11121**
Sethumadhavan, M. (*with* Ramakrishnan, T. R.) A remark on inversive maximal period polynomials over the finite field $\mathbf{F}_p$ where p is a prime. (English summary) **98b:11121**

11K50 Metric theory of continued fractions [see also 11A55, 11J70]

Barbolosi, D. Une application due théorème ergodique sous-additif à la théorie métrique des fractions continues. (English summary) [An application of the subadditive ergodic theorem to the metric theory of continued fractions] **98j:11060**
Brown, Gavin (*with* Yin, Qinghe) Metrical theory for Farey continued fractions. **98a:11104**
Degeratu, Laurenţia The distribution of a two-dimensional sequence connected with the nearest integer continued fraction. (English and Romanian summaries)
Faivre, C. The rate of convergence of approximations of a continued fraction. (English summary) **98m:11083**
Feng, De Jun (*with* Wu, Jun[2]; Liang, Jyh-Ching; Tseng, Shiojenn) Appendix to the paper by T. Łuczak—a simple proof of the lower bound: "On the fractional dimension of sets of continued fractions". **98i:11059b**
Flajolet, Philippe (*with* Vallée, Brigitte) Continued fraction algorithms, functional operators, and structure constants. (English summary) **98j:11061**
Liang, Jyh-Ching *see* **Feng, De Jun; et al., 98i:11059b**
Łuczak, Tomasz On the fractional dimension of sets of continued fractions. **98i:11059a**
— *see also* **Feng, De Jun; et al., 98i:11059b**
Nair, Radhakrishnan On the metric theory of the optimal continued fraction expansion. (English summary) **98f:11083**
Tseng, Shiojenn *see* **Feng, De Jun; et al., 98i:11059b**
Vallée, Brigitte Opérateurs de Ruelle-Mayer généralisés et analyse en moyenne des algorithmes d'Euclide et de Gauss. [Generalized Ruelle-Mayer operators and average case analysis of the Euclidean and Gaussian algorithms] **98g:11091**
— *see also* **Flajolet, Philippe, 98j:11061**
Wu, Jun[2] *see* **Feng, De Jun; et al., 98i:11059b**
Yin, Qinghe *see* **Brown, Gavin, 98a:11104**

Items with secondary classifications in 11K50

Baladi, Viviane (*with* Nogueira, Arnaldo C. R.) Lyapunov exponents for non-classical multidimensional continued fraction algorithms. (English summary) **98e:11085**
Greenman, Chris Fractal properties of spacing distributions. (English summary) **98g:11093**
Nogueira, Arnaldo C. R. *see* **Baladi, Viviane, 98e:11085**
Pinner, Christopher G. On sums of fractional parts $\{n\alpha + \gamma\}$. (English summary) **98d:11093**
Pustyl'nikov, L. D. Infinite-dimensional generalized continued fractions, quadratic residues and nonresidues, and ergodic theory. (Russian)
Su, Francis Edward Convergence of random walks on the circle generated by an irrational rotation. (English summary) **98k:60120**

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [see also 11N99, 28Dxx]

Bisbas, A. (*with* Karanikas, C.; Proios, G.) On the distribution of digits in dyadic expansions. (English summary) **98m:11084**
Dajani, Karma (*with* Kraaikamp, Cor) On approximation by Lüroth series. (English and French summaries) **98g:11092**
Durner, Alexander Distribution measures and Hausdorff dimensions. (English summary) **98i:11060**
Greenman, Chris Fractal properties of spacing distributions. (English summary) **98g:11093**
— Is the level spacing distribution of the infinite-dimensional harmonic oscillator that of a Poisson process? (English summary) **98g:11094**
Karanikas, C. *see* **Bisbas, A.; et al., 98m:11084**
Kraaikamp, Cor *see* **Dajani, Karma, 98g:11092**
Lagarias, Jeffrey C. The $3x + 1$ problem and its generalizations [MR 86i:11043]. (*see* **98f:00027**)
Lalley, Steven P. β-expansions with deleted digits for Pisot numbers β. (English summary) **98f:11084**
Proios, G. *see* **Bisbas, A.; et al., 98m:11084**
Schmeling, Jörg Symbolic dynamics for β-shifts and self-normal numbers. (English summary) **98c:11080**

Items with secondary classifications in 11K55

Dickinson, Detta (*with* Velani, Sanju L.) Hausdorff measure and linear forms. (English summary) **98e:11094**
Feng, De Jun (*with* Wu, Jun[2]; Liang, Jyh-Ching; Tseng, Shiojenn) Appendix to the paper by T. Łuczak—a simple proof of the lower bound: "On the fractional dimension of sets of continued fractions". **98i:11059b**

Harman, Glyn Metrical theorems on prime values of the integer parts of real sequences. **98h:11100**
Liang, Jyh-Ching *see* **Feng, De Jun; et al., 98i:11059b**
Łuczak, Tomasz On the fractional dimension of sets of continued fractions. **98i:11059a**
— *see also* **Feng, De Jun; et al., 98i:11059b**
Nair, Radhakrishnan On some arithmetic properties of L^p summable functions. **98d:28013**
Queffelec, Martine Spectral study of automatic and substitutive sequences. (English summary) **98a:11032**
Schmeling, Jörg Estimates of Weyl sums over subsequences of natural number. (English summary) **98c:11083**
Sirvent, Victor F. On some dynamical subsets of the Rauzy fractal. (English summary) **98d:58096**
Tseng, Shiojenn *see* **Feng, De Jun; et al., 98i:11059b**
Velani, Sanju L. *see* **Dickinson, Detta, 98e:11094**
Wu, Jun[2] *see* **Feng, De Jun; et al., 98i:11059b**
Yue, Hong[1] Fractal properties and dimensions of the generalized Rudin-Shapiro function. (English summary) **98f:28011**

11K60 Diophantine approximation [see also 11Jxx]

Dickinson, Detta (*with* Velani, Sanju L.) Hausdorff measure and linear forms. (English summary) **98e:11094**
Dickinson, Henrietta A note on the theorem of Jarník-Besicovitch. **98k:11112**
Fujita, Takahiko (*with* Ito, Shunji; Keane, Michael S.; Ohtsuki, M.) On almost everywhere exponential convergence of the modified Jacobi-Perron algorithm: a corrected proof. **98a:11105**
Ito, Shunji *see* **Fujita, Takahiko; et al., 98a:11105**
Keane, Michael S. *see* **Fujita, Takahiko; et al., 98a:11105**
Ohtsuki, M. *see* **Fujita, Takahiko; et al., 98a:11105**
Velani, Sanju L. *see* **Dickinson, Detta, 98e:11094**
Zhai, Wen Guang A note on a result of Abercrombie. (Chinese)

Items with secondary classifications in 11K60

Kargaev, Pavel (*with* Zhiglyavskiĭ, A. A.) Asymptotic distribution of the distance function to the Farey points. (English summary) **98m:11077**
Zhiglyavskiĭ, A. A. *see* **Kargaev, Pavel, 98m:11077**

11K65 Arithmetic functions [see also 11Nxx]

Manstavičius, Eugenijus Additive and multiplicative functions on random permutations. (Russian. Lithuanian summary) **98k:11113**
— (*with* Timofeev, Nikolai M.) A functional limit theorem related to natural divisors. **98e:11095**
— *see also* **Tenenbaum, Gérald, 98e:11096**
Šiaulys, Jonas V. Convergence to the Poisson law. II. Unbounded strongly additive functions. (Russian. Lithuanian summary) **98g:11095**
Tenenbaum, Gérald Addendum to the paper of E. Manstavičius and M. N. [N. M.] Timofeev: "A functional limit theorem related to natural divisors" [Acta Math. Hungar. **75** (1997), no. 1-2, 1–13; MR 98e:11095]. **98e:11096**
Timofeev, Nikolai M. *see* **Manstavičius, Eugenijus, 98e:11095** *and* **Tenenbaum, Gérald, 98e:11096**

Items with secondary classifications in 11K65

Elliott, P. D. T. A. (*with* Murata, Leo) On the average of the least primitive root modulo p. **98m:11094**
Grimmett, Geoffrey Large deviations in the random sieve. (English summary) **98a:11125**
Laurinčikas, Antanas On limit distribution of the Matsumoto zeta-function. **98e:11101**
Moree, Pieter On a conjecture of Rodier on primitive roots. (English summary) **98i:11081**
Murata, Leo *see* **Elliott, P. D. T. A., 98m:11094**
Raouj, A. Sur la densité de certains ensembles de multiples. III. [On the density of certain sets of multiples. III] **98d:11111**

11K70 Harmonic analysis and almost periodicity

Gallagher, P. X. On the image of form. **98d:11096**
Kolountzakis, Mihail N. Some applications of probability to additive number theory and harmonic analysis. (English summary) **98i:11061**
Mendès France, Michel Almost-periodic sequences and pseudo-random sequences. (English summary) **98e:11097**

Items with secondary classifications in 11K70

Lagarias, Jeffrey C. (*with* Wang, Yang[3]) Spectral sets and factorizations of finite abelian groups. (English summary) **98b:47011b**
Pedersen, Steen Spectral sets whose spectrum is a lattice with a base. (English summary) **98b:47011a**
Popov, A. Yu. (*with* Stechkin, S. B.) Almost periodic functions and the asymptotic distribution of prime numbers. (English summary) **98b:11095**
Stechkin, S. B. *see* **Popov, A. Yu., 98b:11095**
Wang, Yang[3] *see* **Lagarias, Jeffrey C., 98b:47011b**

11K99 None of the above, but in this section

Hirth, Ulrich Martin Probabilistic number theory, the GEM/Poisson-Dirichlet distribution and the arc-sine law. (English summary) **98a:11106**
Hwang, Hsien-Kuei (*with* Yeh, Yeong Nan) Measures of distinctness for random partitions and compositions of an integer. **98d:11097**
Mauclaire, Jean-Loup Some consequences of a result of Jean Coquet. (English summary) **98i:11062**
Paštéka, Milan The Cantor series of polyadic numbers. (English summary) **98g:11096**
Pavlov, A. I. On the Erdős-Turan theorem on the logarithm of an order for a random permutation. (Russian) **98d:11098**
Ruzsa, Imre Z. A converse to a theorem of Erdős and Fuchs. **98m:11085**
Yeh, Yeong Nan *see* **Hwang, Hsien-Kuei, 98d:11097**

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Arratia, Richard (*with* Barbour, A. D.; Tavaré, Simon) Random combinatorial structures and prime factorizations. **98i:60007**
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Bender, Edward A. (*with* Canfield, E. Rodney) The fraction of subspaces of GF(q)^n with a specified number of minimal weight vectors is asymptotically Poisson. (English summary) **98a:11181**
Canfield, E. Rodney *see* **Bender, Edward A., 98a:11181**
Götze, Friedrich (*with* Prokhorov, Yu. V.; Ul′yanov, Vladimir Vasil′evich) A stochastic analogue of the Vinogradov mean value theorem. (English summary) **98j:11063**
Graham, Ronald L. (*with* Rödl, Vojtěch; Ruciński, Andrzej) On Schur properties of random subsets of integers. (English summary) **98c:05013**
Jones, Roger L. (*with* Wierdl, Máté) Convergence of ergodic averages. (English summary) **98k:28027**
Mauduit, Christian Propriétés arithmétiques des substitutions. [Arithmetical properties of substitutions] **98i:11014**
Pittel, Boris On a likely shape of the random Ferrers diagram. (English summary) **98m:60013**
Prokhorov, Yu. V. *see* **Götze, Friedrich; et al., 98j:11063**
Ratner, Marina Interactions between ergodic theory, Lie groups, and number theory. **98k:22046**
Rawlings, Don A probabilistic approach to some of Euler's number-theoretic identities. (English summary) **98j:11080**
Rödl, Vojtěch *see* **Graham, Ronald L.; et al., 98c:05013**
Ruciński, Andrzej *see* **Graham, Ronald L.; et al., 98c:05013**
Tavaré, Simon *see* **Arratia, Richard; et al., 98i:60007**
Ul′yanov, Vladimir Vasil′evich *see* **Götze, Friedrich; et al., 98j:11063**
Wierdl, Máté *see* **Jones, Roger L., 98k:28027**

11Lxx Exponential sums and character sums {For finite fields, see 11Txx.}

11L03 Trigonometric and exponential sums, general

Chamizo, Fernando (*with* Córdoba, Antonio) One-dimensional crystals and quadratic residues. (English summary) **98f:11085**
Córdoba, Antonio *see* **Chamizo, Fernando, 98f:11085**
Voronin, S. M. On interpolation formulas for classes of Fourier polynomials. (Russian. Russian summary) **98h:11103**
Zhang, Wen Peng On a problem of Brizolis. (Chinese. English and Chinese summaries) **98d:11099**

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Byrne, Graeme J. (*with* Smith, Simon J.) Some integer-valued trigonometric sums. (English summary) **98k:33001**
Jia, Chao Hua The greatest prime factor of the integers in a short interval. IV. (English summary) **98f:11098**
Smith, Simon J. *see* **Byrne, Graeme J., 98k:33001**

11L05 Gauss and Kloosterman sums; generalizations

Aoki, Noboru On the purity problem of Gauss sums and Jacobi sums over finite fields. **98g:11097**
Gao, Li *see* **Wang, Hui[1]; et al., 98k:11114**
Hu, Zhi Xing *see* **Wang, Hui[1]; et al., 98k:11114**
Karatsuba, Anatoliĭ A. Analogues of incomplete Kloosterman sums and their applications. (Russian. English summary) **98j:11062**
Katz, Nicholas Correction to: "On the monodromy groups attached to certain families of exponential sums" [Duke Math. J. **54** (1987), no. 1, 41–56; MR 88i:11053]. **98h:11087**
Kim, Dae San Gauss sums for $O^-(2n, q)$. **98b:11087**
Langevin, Philippe Calculs de certaines sommes de Gauss. (French summary) [Computations of certain Gauss sums] **98a:11107**
Li, Wen-Ch'ing Winnie Elliptic curves, Kloosterman sums and Ramanujan graphs. **98m:11086**
Mao, Zhengyu Airy sums, Kloosterman sums, and Salié sums. (English summary) **98e:11098**
Reshetukha, Ī. V. Three problems contained in the Kummer problem. (Ukrainian. English and Ukrainian summaries) **98m:11087**
Sczech, Robert Gaussian sums, Dedekind sums and the Jacobi triple product identity. **98g:11098**
Tanigawa, Yoshio Sum of Kloosterman zeta functions. **98h:11104**
Wang, Hui[1] (*with* Hu, Zhi Xing; Gao, Li) Divisibility of primitive roots and their inverses modulo N. (Chinese. English and Chinese summaries) **98k:11114**

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Bruggeman, Roelof W. (*with* Miatello, R. J.) Estimates of Kloosterman sums for groups of real rank one. **98h:11060**
Chen, Guo Hui *see* **Gao, Li; et al., 98f:11003**
van Diejen, Jan F. On certain multiple Bailey, Rogers and Dougall type summation formulas. (English summary) **98j:33011**
Gao, Li (*with* Wang, Hui[1]; Chen, Guo Hui) Primitive roots modulo n and their divisibility. (Chinese. English and Chinese summaries) **98f:11003**
— *see also* **Wang, Hui[1]; et al., 98e:11111** *and* **98i:11082**

Hensley, Douglas The distribution of reciprocal pairs modulo polynomials over a finite field. (English summary) **98a:11173**
Hu, Zhi Xing *see* **Wang, Hui[1]; et al., 98e:11111** *and* **98i:11082**
Ibukiyama, Tomoyoshi (*with* Saito, Hiroshi[1]) On zeta functions associated to symmetric matrices. III. An explicit form of L-functions. (English summary) **98f:11096**
Ichimura, Humio Local units modulo Gauss sums. (English summary) **98k:11154**
Karatsuba, Anatoliĭ A. Sums of fractional parts of functions of a special type. (Russian) **98f:11072**
Kim, Dae San Gauss sums for general and special linear groups over a finite field. (English summary) **98g:11139**
Kuznetsov, N. V. Sums of Kloosterman sums and the eighth power moment of the Riemann zeta-function. **98c:11085**
Lee, In-Sok (*with* Park, Kyung-Hwan) Gauss sums for $G_2(q)$. **98g:11140**
Matthes, Roland A reduction of the remainder term in the prime geodesic theorem for the theta case. **98k:11064**
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Motohashi, Yôichi On Kuznetsov's trace formulae. **98f:11035**
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Shiratani, Katsumi *see* **Washio, Tadashi; et al., 98a:11178**
Spearman, Blair K. (*with* Williams, Kenneth S.) The conductor of a cyclic quartic field using Gauss sums. (English summary) **98d:11132**
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Wang, Hui[1] (*with* Gao, Li; Hu, Zhi Xing) The distribution of the difference between the D. H. Lehmer number and its inverse in the primitive roots modulo q. (Chinese. English and Chinese summaries) **98e:11111**
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Williams, Kenneth S. *see* **Spearman, Blair K., 98d:11132**
Wu, Sheng Li Quadratic residues and related problems. (Chinese. English and Chinese summaries) **98h:11004**
Zhang, Wen Peng On the distribution of inverses modulo n. (English summary) **98g:11109**
Zhedanov, A. S. Gauss sums and orthogonal polynomials. (English summary) **98h:33009**

11L07 Estimates on exponential sums

Cochrane, Todd Bounds on complete exponential sums. (English summary) **98c:11081**
Ding, Ping On a conjecture of Chalk. (English summary) **98f:11086**
Fouvry, Étienne (*with* Michel, Philippe G.) Sur certaines sommes d'exponentielles sur les nombres premiers. (English and French summaries) [Some exponential sums over primes] **98m:11088**
Götze, Friedrich (*with* Prokhorov, Yu. V.; Ul'yanov, Vladimir Vasil'evich) A stochastic analogue of the Vinogradov mean value theorem. (English summary) **98j:11063**
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Michel, Philippe G. *see* **Fouvry, Étienne, 98m:11088**
Perelli, A. The L^1 norm of certain exponential sums in number theory: a survey. (English summary) **98f:11087**
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Vlăduţ, Serge G. Two applications of Weil-Serre's explicit formula. (English summary) **98d:11100**
Zhai, Wen Guang On a multiplicative hybrid problem. II. (Chinese. English and Chinese summaries) **98a:11108**
Zhang, Mingyao (*with* Li, Wenya) Sums of equal powers and maximum modulus polynomials. (English and Chinese summaries) **98a:11109**

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Baker, R. C. (*with* Harman, Glyn) The sequence x/n and its subsequences. **98d:11109**
Bauer, Claus A note on sums of five almost equal prime squares. (English summary) **98c:11110**
Cai, Ying Chun A Diophantine inequality with prime variables. (Chinese. English and Chinese summaries) **98g:11039**
Chang, Mei-Chu On the Chern numbers of surfaces and 3-folds of codimension 2. **98f:14027**
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— (*with* Zhan, Tao) On a theorem of Hua. (English summary) **98k:11140**
Meng, Xian Meng The Waring-Goldbach problem in short intervals. (Chinese. English and Chinese summaries) **98k:11134**
Wooley, Trevor D. On exponential sums over smooth numbers. **98g:11110**
Wu, Jie[1] P_2 dans les petits intervalles. [P_2 in small intervals] **98i:11074**
Zhan, Tao *see* **Liu, Jianya, 98g:11099** *and* **98k:11140**
Zhang, Wen Peng On a problem of Brizolis. (Chinese. English and Chinese summaries) **98d:11099**

11L10 Jacobsthal and Brewer sums; other complete character sums

Helversen-Pasotto, Anna P. Character sum identities in analogy with special functions identities. **98h:11105**
Jakubec, Stanislav Criterion for 3 to be eleventh power. (English summary) **98f:11088**
Leprévost, Franck (*with* Morain, F.) Revêtements de courbes elliptiques à multiplication complexe par des courbes hyperelliptiques et sommes de caractères. (French summary) [Coverings of elliptic curves with complex multiplication by hyperelliptic curves and character sums] **98e:11099**
Liu, Chun Lei[1] On incomplete character sums. (English and Chinese summaries) **98a:11110**
Morain, F. *see* **Leprévost, Franck, 98e:11099**
Shiratani, Katsumi (*with* Yamada, Mieko) On rationality of Jacobi sums. **98c:11082**
Yamada, Mieko *see* **Shiratani, Katsumi, 98c:11082**

11L15 Weyl sums

Schmeling, Jörg Estimates of Weyl sums over subsequences of natural number. (English summary) **98c:11083**
Vaughan, R. C. (*with* Wooley, Trevor D.) On the distribution of generating functions. **98k:11115**
Wooley, Trevor D. *see* **Vaughan, R. C., 98k:11115**

Items with secondary classifications in 11L15

Vaughan, R. C. ★ The Hardy-Littlewood method. (English summary) **98a:11133**
— (*with* Wooley, Trevor D.) A special case of Vinogradov's mean value theorem. **98i:11017**
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11L20 Sums over primes

Liu, Jianya (*with* Zhan, Tao) Estimation of exponential sums over primes in short intervals. II. **98g:11099**
Zhan, Tao *see* **Liu, Jianya, 98g:11099**

Items with secondary classifications in 11L20

Baker, R. C. (*with* Harman, Glyn) The sequence x/n and its subsequences. **98d:11109**
Harman, Glyn *see* **Baker, R. C., 98d:11109**
Kumchev, A. (*with* Tolev, D. I.) An additive problem with prime numbers from a thin set. **98h:11123**
Nair, Radhakrishnan On some arithmetic properties of L^p summable functions. **98d:28013**
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Wu, Jie[1] P_2 dans les petits intervalles. [P_2 in small intervals] **98i:11074**

11L40 Estimates on character sums

Burgess, D. A. On the average of character sums for a group of characters. **98f:11089**
Caragiu, Mellita *see* **Caragiu, Mihai, 98f:11090**
Caragiu, Mihai (*with* Caragiu, Mellita) The $GL(n, \mathbf{F}_p)$-invariance of the Potts Hamiltonian. (English summary) **98f:11090**
Cochrane, Todd (*with* Zheng, Zhiyong) High order moments of character sums. (English summary) **98i:11063**
Hsu, Chih-Nung On certain character sums over $\mathbf{F}_q[T]$. (English summary) **98f:11091**
Liu, Chun Lei[1] On incomplete Gaussian sums. (English summary) **98f:11092**
Zheng, Zhiyong *see* **Cochrane, Todd, 98i:11063**

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Leprévost, Franck (*with* Morain, F.) Revêtements de courbes elliptiques à multiplication complexe par des courbes hyperelliptiques et sommes de caractères. (French summary) [Coverings of elliptic curves with complex multiplication by hyperelliptic curves and character sums] **98e:11099**
Li, Wen-Ch'ing Winnie Estimates of character sums arising from finite upper half planes. (English summary) **98a:11177**
Morain, F. *see* **Leprévost, Franck, 98e:11099**
Queffelec, Hervé Norm of the inverse of a matrix; solution to a problem of Schäffer. (English and French summaries) **98g:47007**
Stepanov, S. A. On lower bounds on the character sums over finite fields. (Russian) **98b:11124**

11Mxx Zeta and L-functions: analytic theory

Murty, M. Ram (*with* Murty, V. Kumar) ★ Non-vanishing of L-functions and applications. (English summary) **98h:11106**
Murty, V. Kumar *see* **Murty, M. Ram, 98h:11106**

11M06 $\zeta(s)$ and $L(s, \chi)$

Balasubramanian, Ramachandran (*with* Ramachandra, Kanakanahalli) Some local-convexity theorems for the zeta-function-like analytic functions. III. **98i:11064**
Chu, Wen Chang Hypergeometric series and the Riemann zeta function. **98m:11089**
Cvijović, Djurdje (*with* Klinowski, Jacek) Continued-fraction expansions for the Riemann zeta function and polylogarithms. (English summary) **98a:11111**
Dutka, Jacques On the summation of some divergent series of Euler and the zeta functions. **98a:11112**
Guthmann, Andreas New integral representations for the square of the Riemann zeta-function. **98k:11116**
Hoffman, Michael E. (*with* Moen, Courtney) Sums of triple harmonic series. (English summary) **98a:11113**
Ivić, Aleksandar On the mean square of the error term in the approximate functional equation for $\zeta^2(s)$. (English summary) **98c:11084**
Kaczorowski, Jerzy (*with* Szydło, Bogdan) Some Ω-results related to the fourth power moment of the Riemann zeta-function and to the additive divisor problem. (English and French summaries) **98m:11090**

Karatsuba, Anatolii A. On the function $S(t)$. (Russian. Russian summary) **98a:11114**
— A density theorem and the behavior of the argument of the Riemann zeta function. (Russian) **98a:11115**
Katsurada, Masanori On Mellin-Barnes type of integrals and sums associated with the Riemann zeta-function. (English summary) **98k:11117**
Klinowski, Jacek *see* **Cvijović, Djurdje, 98a:11111**
Kuznetsov, N. V. Sums of Kloosterman sums and the eighth power moment of the Riemann zeta-function. **98c:11085**
Laurinčikas, Antanas On the universality of the Riemann zeta function. (Russian. Lithuanian summary) **98c:11086**
— Limit theorem in the space of continuous functions for the Dirichlet polynomial related with the Riemann zeta-function. (English and French summaries) **98m:11091**
— On the mean square of the Riemann zeta function. (Russian. Lithuanian summary) **98c:11087**
Lee, M. Howard Polylogarithms and Riemann's ζ function. (English summary) **98m:11092**
Mo, Guo Duan The δ-mean values of the Riemann zeta function on the critical line. (Chinese. English and Chinese summaries) **98e:11100**
Moen, Courtney *see* **Hoffman, Michael E., 98a:11113**
Motohashi, Yōichi The Riemann zeta-function and the Hecke congruence subgroups. **98f:11093**
Nesterenko, Yu. V. Some remarks on $\zeta(3)$. (Russian. Russian summary) **98b:11088**
Ramachandra, Kanakanahalli *see* **Balasubramanian, Ramachandran, 98i:11064**
Szydło, Bogdan *see* **Kaczorowski, Jerzy, 98m:11090**
Vasil'ev, D. V. Some formulas for the Riemann zeta function at integer points. (Russian)
Wang, Ke Cheng Multiplication formulas for the Riemann zeta-function. (Chinese. English and Chinese summaries) **98a:11116**
Wang, Wei[3] Inversion formula of Dirichlet polynomials and the approximate functional equation of Dirichlet's L-functions. (English summary) **98f:11094**

Items with secondary classifications in 11M06

Al-Shuaibi, Abdulaziz The Riemann zeta function used in the inversion of the Laplace transform. (English summary) **98m:44001**
Bailey, David H. (*with* Plouffe, Simon) Recognizing numerical constants. (English summary) **98i:11111**
Bhaduri, R. K. (*with* Khare, Avinash; Reimann, S. M.; Tomusiak, E. L.) The Riemann zeta function and the inverted harmonic oscillator. (English summary) **98b:11131**
Borwein, Jonathan M. (*with* Bradley, David) Empirically determined Apéry-like formulae for $\zeta(4n+3)$. (English summary) **98m:11142**
Bradley, David *see* **Borwein, Jonathan M., 98m:11142**
Chakraborty, Sharmishtha *see* **Joshi, P. C., 98f:62149**
Chang, Joseph T. (*with* Peres, Yuval) Ladder heights, Gaussian random walks and the Riemann zeta function. (English summary) **98c:60086**
Choi, Junesang (*with* Seo, Tae Young) Evaluation of some infinite series. (English summary) **98k:33027**
— (*with* Nash, Charles) Integral representations of the Kinkelin's constant A. (English summary) **98j:33002**
Clawson, Calvin C. ★ Mathematical mysteries. **98e:11001**
Contucci, Pierluigi (*with* Knauf, Andreas) The phase transition of the number-theoretical spin chain. (English summary) **98j:82011**
Delves, R. T. (*with* Joyce, G. S.; Zucker, I. J.) Exact results in the theory of intermediate statistics. (English summary) **98d:82002**
Gosper, R. Wm., Jr. $\int_{n/4}^{m/6} \ln \Gamma(z)dz$. (English summary) **98m:33004**
Hauss, Michael An Euler-Maclaurin-type formula involving conjugate Bernoulli polynomials and an application to $\zeta(2m+1)$. (English summary) **98b:11019**
Ivić, Aleksandar On the distribution of zeros of a class of convolution functions. (English summary) **98f:11095**
Joshi, P. C. (*with* Chakraborty, Sharmishtha) Moments of Cauchy order statistics via Riemann zeta functions. (English summary) **98f:62149**
Joyce, G. S. *see* **Delves, R. T.; et al., 98d:82002**
Karatsuba, E. A. On the fast calculation of the Riemann zeta function for integer argument. (Russian) **98a:11190**
Khare, Avinash *see* **Bhaduri, R. K.; et al., 98b:11131**
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Nash, Charles *see* **Choi, Junesang, 98j:33002**
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Soundararajan, K. The horizontal distribution of zeros of $\zeta'(s)$. **98k:11119**
Tomusiak, E. L. *see* **Bhaduri, R. K.; et al., 98b:11131**
Viola, C. On Siegel's method in Diophantine approximation to transcendental numbers. (English summary) **98f:11076**
Zagier, Don Newman's short proof of the prime number theorem. **98j:11069**
Zhai, Wen Guang On a number-theoretic series. (Chinese. English and Chinese summaries) **98m:11100**
Zucker, I. J. *see* **Delves, R. T.; et al., 98d:82002**

11M20 Real zeros of $L(s,\chi)$; results on $L(1,\chi)$

Items with secondary classifications in 11M20

Bateman, Paul T. A theorem of Ingham implying that Dirichlet's L-functions have no zeros with real part one. **98h:11107**
Perelli, A. The L^1 norm of certain exponential sums in number theory: a survey. (English summary) **98f:11087**
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"Zeros of derivatives of Dirichlet L-functions" Erratum: "Zeros of derivatives of Dirichlet L-functions" [Turkish J. Math. **20** (1996), no. 4, 521–534; MR 97j:11041] by C. Y. Yıldırım.

Errata: (*cont'd.*)
L-functions" [Turkish J. Math. **20** (1996), no. 4, 521–534; MR 97j:11041] by C. Y. Yıldırım.

11M26 Nonreal zeros of $\zeta(s)$ and $L(s,\chi)$; Riemann and other hypotheses

Bateman, Paul T. A theorem of Ingham implying that Dirichlet's L-functions have no zeros with real part one. **98h:11107**
Connes, Alain Trace formula in noncommutative geometry and the zeros of the Riemann zeta function. (English summary) **98i:11065**
Coppola, G. (*with* Laporta, M. B. S.) A new "weighted" form of the Riemann-von Mangoldt explicit formula. (English summary) **98k:11118**
Fujii, Akio On the Berry conjecture. **98i:11066**
Grawe, Markus Asymptotic growth of Hermite series and an application to the theory of the Riemann zeta function. **98c:11088**
Ivić, Aleksandar On the distribution of zeros of a class of convolution functions. (English summary) **98f:11095**
Laporta, M. B. S. *see* **Coppola, G., 98k:11118**
Li, Xian-Jin The positivity of a sequence of numbers and the Riemann hypothesis. (English summary) **98d:11101**
Moser, Jan The Riemann hypothesis for some parts of the function $\zeta(s)$, and a new formula for $\pi(x)$. (Russian) **98i:11067**
Özlük, Ali E. On the q-analogue of the pair correlation conjecture. (English summary) **98b:11089**
Sondow, Jonathan The Riemann hypothesis, simple zeros and the asymptotic convergence degree of improper Riemann sums. (English summary) **98j:11064**
Soundararajan, K. The horizontal distribution of zeros of $\zeta'(s)$. **98k:11119**
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Items with secondary classifications in 11M26

Amoroso, Francesco On the heights of a product of cyclotomic polynomials. (English summary) **98f:11113**
Bach, Eric Comments on search procedures for primitive roots. (English summary) **98a:11187**
Burthe, Ronald Joseph, Jr. The average least witness is 2. **98h:11118**
Forrester, Peter J. (*with* Odlyzko, Andrew) Gaussian unitary ensemble eigenvalues and Riemann ζ function zeros: a nonlinear equation for a new statistic. (English summary) **98a:82054**
Languasco, A. (*with* Perelli, A.) A pair correlation hypothesis and the exceptional set in Goldbach's problem. **98g:11113**
Li, De Lang *see* **Sun, Shun Hua, 98j:47065**
Mo, Guo Duan The δ-mean values of the Riemann zeta function on the critical line. (Chinese. English and Chinese summaries) **98e:11100**
Murty, M. Ram Stronger multiplicity one for Selberg's class. **98f:11097**
Nowak, Werner Georg On sums and differences of two relative prime cubes. II. (English summary) **98j:11073**
Odlyzko, Andrew *see* **Forrester, Peter J., 98a:82054**
Perelli, A. *see* **Languasco, A., 98g:11113**
Popov, A. Yu. *see* **Stechkin, S. B., 98a:11121**
Stechkin, S. B. (*with* Popov, A. Yu.) Asymptotic distribution of prime numbers in the mean. (Russian) **98a:11121**
Sun, Shun Hua (*with* Li, De Lang) Hankel operators and the Riemann hypothesis. (Chinese. Chinese summary) **98j:47065**
Zinoviev, Dmitrii On Vinogradov's constant in Goldbach's ternary problem. (English summary) **98f:11107**

11M35 Hurwitz and Lerch zeta functions

Carletti, Ettore (*with* Monti Bragadin, G.) Errata to the paper: "On a functional equation satisfied by certain Dirichlet series" [Acta Arith. **71** (1995), no. 3, 265–272; MR 96d:11094]. **98i:11068**
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11M36 Selberg zeta functions and regularized determinants

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11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72.}

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11M45 Tauberian theorems [see also 40E05]

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11Nxx Multiplicative number theory

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11N13 Primes in progressions [see also 11B25]

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11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

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11N36 Applications of sieve methods

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11N37 Asymptotic results on arithmetic functions

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Deléglise, Marc Encadrement de la fonction sommatoire des inverses des termes d'une progression arithmétique. (English and French summaries) [Two-sided estimation of the summatory function of the inverses of the terms of an arithmetic progression] **98c:11094**
Gao, Li *see* **Wang, Hui**[1]**; et al.**, **98f:11103**
Gediri, Kh. An asymptotic formula for the sum of the number of divisors of Gaussian numbers. (Russian. Russian summary) **98j:11071**
Greuel, Bernd Über Summen zahlentheoretischer Funktionen. [On sums of number-theoretic functions] **98c:11095**
— Two results on arithmetical functions. (English summary) **98g:11106**
Hu, Zhi Xing *see* **Wang, Hui**[1]**; et al.**, **98f:11103**
Ivić, Aleksandar On large additive functions over primes of positive density. (English summary) **98a:11127**
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Khodzhaev, N. M. The divisor problem on short intervals. (Russian)
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Kühleitner, Manfred An omega theorem on the general asymmetric divisor problem. (English summary) **98i:11076**
Lau, Yuk-Kam (*with* Tsang, Kai-Man) Mean square of the remainder term in the Dirichlet divisor problem. **98k:11126**
Lin, Jia Fa The distribution of the integers having a fixed number of prime factors. (Chinese. English and Chinese summaries) **98j:11072**
Liu, Jianya On an error term of Chowla. I, II, III. (English summary) **98d:11113**
Menzer, H. On the distribution of powerful numbers. **98h:11115**
Nowak, Werner Georg On sums and differences of two relative prime cubes. II. (English summary) **98j:11073**
Pétermann, Y.-F. S. (*with* Wu, Jie[1]) On the sum of exponential divisors of an integer. **98m:11098**
Pinner, Christopher G. Repeated values of the divisor function. **98m:11099**
Rémy, Jean-Luc Sur la suite autodécrite de Golomb. (French summary) [On Golomb's self-describing sequence] **98i:11077**
Saias, Eric Entiers à diviseurs denses. I. (English summary) [Integers with dense divisors. I] **98c:11096**
Smati, A. (*with* Wu, Jie[1]) On the exponential divisor function. (English summary) **98k:11127**
Srinivasan, Seshadri A weak Brun-Titchmarsh theorem for multiplicative functions. (English summary) **98j:11074**
Stakėnas, V. Bounds for some sums over rational numbers. (Lithuanian summary) **98j:11075**
Stankus, È. On the function $\sigma_\delta(n)$. (Russian. Lithuanian summary) **98d:11114**
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Timofeev, Nikolai M. The Hardy and Liouville problem for numbers that have a given number of prime divisors. (Russian. Russian summary) **98i:11078**
— (*with* Khripunova, M. B.) The Titchmarsh problem with numbers that have a given number of prime factors. (Russian. Russian summary) **98c:11097**
Tóth, László Asymptotic formulae concerning arithmetical functions defined by cross-convolutions. I. Divisor-sum functions and Euler-type functions. (English summary) **98c:11098**
— Asymptotic formulae concerning the product and the quotient of the arithmetical functions σ_s and φ_s. (English summary) **98k:11128**
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— *see also* **Lau, Yuk-Kam**, **98k:11126**
Tudesq, Christian Étude d'un terme d'erreur lié à la fonction totient de Jordan. [Study of an error term associated with the Jordan totient function] **98d:11116**
Wang, Hui[1] (*with* Hu, Zhi Xing; Gao, Li) The distribution of primitive roots modulo n and a generalization. (Chinese. English and Chinese summaries) **98f:11103**
Wu, Jie[1] *see* **Smati, A.**, **98k:11127** *and* **Pétermann, Y.-F. S.**, **98m:11098**
Yu, Xiu Yuan The mean order of powers of sums of digits of numbers. (Chinese) **98a:11128**
Zhai, Wen Guang (*with* Cao, Xiao Dong[1]) On the average number of direct factors of finite abelian groups. **98k:11129**
— Reciprocal sums of a class of additive functions in short intervals. **98g:11107**
— On a number-theoretic series. (Chinese. English and Chinese summaries) **98m:11100**

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De Koninck, Jean-Marie (*with* Ivić, Aleksandar) Arithmetic characterization of regularly varying functions. (English summary) **98k:11130**
Gao, Li *see* **Wang, Hui**[1]**; et al.**, **98e:11111** *and* **98i:11082**
Hu, Zhi Xing *see* **Wang, Hui**[1]**; et al.**, **98e:11111** *and* **98i:11082**
Ivić, Aleksandar *see* **De Koninck, Jean-Marie**, **98k:11130**
Kaczorowski, Jerzy (*with* Szydło, Bogdan) Some Ω-results related to the fourth power moment of the Riemann zeta-function and to the additive divisor problem. (English and French summaries) **98m:11090**
Kátai, Imre Research problems in number theory. II. **98m:11002**
Lucht, Lutz G. Arithmetical aspects of certain functional equations. (English summary) **98m:11005**
Moree, Pieter A generalization of the Buchstab equation. (English summary) **98m:11096**
Newman, Donald J. ★ Analytic number theory. (English summary) **98m:11001**
Nicolas, Jean-Louis On Landau's function $g(n)$. **98b:11096**
Szydło, Bogdan *see* **Kaczorowski, Jerzy**, **98m:11090**
Wang, Hui[1] (*with* Gao, Li; Hu, Zhi Xing) The distribution of the difference between the D. H. Lehmer number and its inverse in the primitive roots modulo q. (Chinese. English and Chinese summaries) **98e:11111**
— (*with* Hu, Zhi Xing; Gao, Li) The distribution of the D. H. Lehmer numbers among the primitive roots modulo q. (Chinese. English and Chinese summaries) **98i:11082**
Wu, Jie[1] Problème de diviseurs exponentiels et entiers exponentiellement sans facteur carré. [Problem of exponential divisors and exponentially square-free integers] **98e:11108**
Yokota, Hisashi On number of integers representable as a sum of unit fractions. II. (English summary) **98k:11031**
Zhang, Wen Peng On the distribution of inverses modulo n. (English summary) **98g:11109**

11N45 Asymptotic results on counting functions for algebraic and topological structures

Bhowmik, Gautami (*with* Wu, Jie[1]) On the asymptotic behaviour of the number of subgroups of finite abelian groups. (English summary) **98i:11079**
Cai, Ying Chun Density estimates for some classes of groups. (Chinese. English and Chinese summaries) **98i:11080**
— A remark on a problem of Srinivasan. (English and Chinese summaries) **98c:11099**
Cao, Xiao Dong[1] *see* **Ren, Jian Hua**, **98a:11129**
Murty, M. Ram Counting finite groups. **98j:11076**
Ren, Jian Hua (*with* Cao, Xiao Dong[1]) The number of nonisomorphic finite abelian groups with orders belonging to a short interval. (Chinese. English and Chinese summaries) **98a:11129**
Srinivasan, Seshadri Corrigendum: "On orders solely of abelian groups. III" [J. Number Theory **39** (1991), no. 2, 175–180; MR 92j:11110]. **98e:11108**
Wu, Jie[1] *see* **Bhowmik, Gautami**, **98i:11079**

Items with secondary classifications in 11N45

Cao, Xiao Dong[1] *see* **Zhai, Wen Guang**, **98k:11129**
Zhai, Wen Guang (*with* Cao, Xiao Dong[1]) On the average number of direct factors of finite abelian groups. **98k:11129**

11N56 Rate of growth of arithmetic functions

De Koninck, Jean-Marie (*with* Ivić, Aleksandar) Arithmetic characterization of regularly varying functions. (English summary) **98k:11130**
Gao, Li (*with* Zhao, Zhen[4]; Wang, Hui[1]; Hu, Zhi Xing) A problem associated with Golomb's conjecture. (Chinese. English and Chinese summaries) **98k:11131**
Hu, Zhi Xing *see* **Gao, Li**; **et al.**, **98k:11131**
Ivić, Aleksandar *see* **De Koninck, Jean-Marie**, **98k:11130**
Wang, Hui[1] *see* **Gao, Li**; **et al.**, **98k:11131**
Yuan, Ping Zhi A conjecture on the number of multiplicative decompositions of natural numbers. (Chinese. English and Chinese summaries) **98k:11132**
Zhao, Zhen[4] *see* **Gao, Li**; **et al.**, **98k:11131**

Items with secondary classifications in 11N56

Gould, H. W. (*with* Shonhiwa, Temba) Functions of GCD's and LCM's. (English summary) **98j:11001**
Shonhiwa, Temba *see* **Gould, H. W.**, **98j:11001**
Tudesq, Christian Étude d'un terme d'erreur lié à la fonction totient de Jordan. [Study of an error term associated with the Jordan totient function] **98d:11116**

11N60 Distribution functions associated with additive and positive multiplicative functions

Adhikari, Sukumar Das (*with* Thangadurai, R.) Addendum to: "A note on the distribution of values of an arithmetical function" [Indian J. Pure Appl. Math. **26** (1995), no. 10, 931–935; MR 96i:11109]. (English summary) **98c:11100**
Thangadurai, R. *see* **Adhikari, Sukumar Das**, **98c:11100**
Tudesq, Christian Majoration de la loi locale de certaines fonctions additives. [Upper bound for the local law of some additive functions] **98b:11102**

Items with secondary classifications in 11N60

Lioen, Walter M. (*with* van de Lune, Jan) Systematic computations on Mertens' conjecture and Dirichlet's divisor problem by vectorized sieving. (English summary) **98j:11125**
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Srinivasan, Seshadri A weak Brun-Titchmarsh theorem for multiplicative functions. (English summary) **98j:11074**

Stakėnas, V. Bounds for some sums over rational numbers. (Lithuanian summary) **98j:11075**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

Abramchuk, V. S. On a fast algorithm for searching for prime numbers that do not exceed the number x. (Russian. English summary) **98g:11108**
Bhowmik, Gautami (*with* Ramaré, O.) Errata to: "Average orders of multiplicative arithmetical functions of integer matrices" [Acta Arith. **66** (1994), no. 1, 45–62; MR 95d:11131]. **98h:11116**
Bui Minh Phong Characterizations of the logarithm as an additive function. **98h:11116**
Kovács, Katalin On a conjecture concerning additive arithmetical functions. II. (English summary) **98f:11104**
Ramaré, O. *see* **Bhowmik, Gautami**
Srinivasan, Seshadri On an arithmetical inequality. II. (English summary) **98k:11133**
Zhang, Wen Peng On the distribution of inverses modulo n. (English summary) **98g:11109**

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Haukkanen, Pentti On the real powers of completely multiplicative arithmetical functions. (English summary) **98h:11006**
Manstavičius, Eugenijus (*with* Timofeev, Nikolai M.) A functional limit theorem related to natural divisors. **98e:11095**
— *see also* **Tenenbaum, Gérald, 98e:11096**
Šiaulys, Jonas V. Convergence to the Poisson law. II. Unbounded strongly additive functions. (Russian. Lithuanian summary) **98g:11095**
Tenenbaum, Gérald Addendum to the paper of E. Manstavičius and M. N. [N. M.] Timofeev: "A functional limit theorem related to natural divisors" [Acta Math. Hungar. **75** (1997), no. 1-2, 1–13; MR 98e:11095]. **98e:11096**
Timofeev, Nikolai M. *see* **Manstavičius, Eugenijus, 98e:11095** *and* **Tenenbaum, Gérald, 98e:11096**
Zhai, Wen Guang A note on a result of Abercrombie. (Chinese)

11N69 Distribution of integers in special residue classes

Burthe, Ronald Joseph, Jr. Upper bounds for least witnesses and generating sets. **98h:11117**
— The average least witness is 2. **98h:11118**
Gao, Li *see* **Wang, Hui[1]; et al., 98e:11111** *and* **98i:11082**
Hu, Zhi Xing *see* **Wang, Hui[1]; et al., 98e:11111** *and* **98i:11082**
Martin, Greg The least prime primitive root and the shifted sieve. **98c:11101**
Moree, Pieter On a conjecture of Rodier on primitive roots. (English summary) **98i:11081**
Pappalardi, F. On Hooley's theorem with weights. (English summary) **98c:11102**
Plaksin, V. A. On the distribution of quadratic residues and nonresidues. (Russian. Russian summary) **98a:11130**
Shirokov, B. M. The distribution of $d(n,\omega)$ in residue classes. (Russian. Russian summary) **98b:11103**
Wang, Hui[1] (*with* Gao, Li; Hu, Zhi Xing) The distribution of the difference between the D. H. Lehmer number and its inverse in the primitive roots modulo q. (Chinese. English and Chinese summaries) **98e:11111**
— (*with* Hu, Zhi Xing; Gao, Li) The distribution of the D. H. Lehmer numbers among the primitive roots modulo q. (Chinese. English and Chinese summaries) **98i:11082**

11N80 Generalized primes and integers

Kahane, Jean-Pierre Une formule de Fourier pour les nombres premiers. Application aux nombres premiers généralisés de Beurling. (English and French summaries) [A Fourier formula for primes. Application to Beurling generalized primes] **98c:11103**
— Le rôle de l'algèbre H^1 de Sobolev dans la théorie des nombres premiers généralisés de Beurling. (English and French summaries) [The role of the Sobolev algebra H^1 in Beurling's generalized prime number theory] **98d:11117**
Stankus, Ė. On some generalized numbers. (Russian. Lithuanian summary) **98d:11118**

Items with secondary classifications in 11N80

Kahane, Jean-Pierre A Fourier formula for prime numbers. **98f:11099**

11N99 None of the above, but in this section

Items with secondary classifications in 11N99

Burris, Stanley Spectrally determined first-order limit laws. (English summary) **98j:03047**
— (*with* Sárközy, András) Fine spectra and limit laws. I. First-order laws. (English summary) **98k:03076a**
— (*with* Compton, Kevin J.; Odlyzko, Andrew; Richmond, L. Bruce) Fine spectra and limit laws. II. First-order 0-1 laws. (English summary) **98k:03076b**
Compton, Kevin J. *see* **Burris, Stanley; et al., 98k:03076b**
Odlyzko, Andrew *see* **Burris, Stanley; et al., 98k:03076b**
Richmond, L. Bruce *see* **Burris, Stanley; et al., 98k:03076b**
Sárközy, András *see* **Burris, Stanley, 98k:03076a**

11Pxx Additive number theory; partitions

11P05 Waring's problem and variants

Allakov, I. A. *see* **Israilov, M. I., 98b:11105**
Cohn, J. H. E. A conjecture of Erdős on 3-powerful numbers. (English summary) **98c:11104**
Daniel, Stephan On gaps between numbers that are sums of three cubes. **98c:11105**
Ėminyan, K. M. On the representation of numbers with given properties of the binary expansion as sums of two squares. (Russian) **98m:11101**
Harcos, Gergely Waring's problem with small prime factors. **98m:11102**
Heath-Brown, D. R. Weyl's inequality, Waring's problem and Diophantine approximation. **98b:11104**
Israilov, M. I. (*with* Allakov, I. A.) On the sum of the kth powers of natural numbers. (Russian) **98b:11105**
Laforge, Christophe Divertissements mathématiques: à la découverte des cubes. [Mathematical diversions: discovering cubes]
Lu, Ming Gao (*with* Yu, Hong Bing; Yu, Gang[1]) Waring's problem for polynomials. II. (Chinese. English and Chinese summaries) **98b:11106**
— (*with* Yu, Gang[1]) On a problem of sums of mixed powers. II. (English summary) **98e:11112**
Meng, Xian Meng The Waring-Goldbach problem in short intervals. (Chinese. English and Chinese summaries) **98k:11134**
Meng, Zai Zhao Some new results in Waring's problem. (English summary) **98e:11113**
— Some new results on Waring's problem. (Chinese. English and Chinese summaries) **98e:11114**
— Some new results on Waring's problem. (Chinese. English and Chinese summaries) **98e:11115**
Wooley, Trevor D. On exponential sums over smooth numbers. **98g:11110**
Yu, Gang[1] *see* **Lu, Ming Gao; et al., 98b:11106** *and* **98e:11112**
Yu, Hong Bing On Waring's problem with quartic polynomial summands. **98c:11106**
— *see also* **Lu, Ming Gao; et al., 98b:11106**
Zenkin, A. A. Letter to the editor: "The generalized Waring problem: on a new property of natural numbers" [Mat. Zametki **58** (1995), no. 3, 372–378, 479; MR 97e:11122]. (Russian) **98a:11131**
— The generalized Waring problem: $G(m,r) \le G(0,r) + m + 1$ for any $m \ge 1$, $r \ge 3$. (Russian) **98m:11103**
Zrein, A. On the generalized L. K. Hua problem. (Russian. Russian summary) **98h:11119**

Items with secondary classifications in 11P05

Ewell, John A. On an identity of Ramanujan. (English summary) **98f:11007**
Ribenboim, Paulo Errata and addenda: "The Catalan conjecture" [Bull. Soc. Catalana Mat. **11** (1996), no. 1, 95–105; MR 97h:11117]. (Catalan)
Vaughan, R. C. ★ The Hardy-Littlewood method. (English summary) **98a:11133**
— (*with* Wooley, Trevor D.) A special case of Vinogradov's mean value theorem. **98i:11017**
— (*with* Wooley, Trevor D.) On the distribution of generating functions. **98k:11115**
Wang, Xiaohong On the Waring problem for infinite matrices. (English summary) **98d:11031**
Wooley, Trevor D. *see* **Vaughan, R. C., 98i:11017** *and* **98k:11115**
Zeng, Jiang On a generalization of Waring's formula. (English summary) **98i:11010**

11P21 Lattice points in specified regions

Adhikari, Sukumar Das Lattice points in spheres. **98g:11111**
Bentkus, Vidmantas (*with* Götze, Friedrich) On the lattice point problem for ellipsoids. **98h:11120**
Borwein, David (*with* Borwein, Jonathan M.; Pinner, Christopher G.) Convergence of Madelung-like lattice sums. (English summary) **98k:11135**
Borwein, Jonathan M. *see* **Borwein, David; et al., 98k:11135**
Brion, Michel (*with* Vergne, Michèle) Lattice points in simple polytopes. **98a:11132**
Chamizo, Fernando Sums of squares in $\mathbf{Z}[\sqrt{k}]$. (English and French summaries) **98k:11136**
Cilleruelo, Javier (*with* Jiménez-Urroz, Jorge) Lattice points on hyperbolas. (English summary) **98d:11119**
Colzani, Leonardo Approximation of Lebesgue integrals by Riemann sums and lattice points in domains with fractal boundary. (English summary) **98e:11116**
Diaz, Ricardo (*with* Robins, Sinai) The Ehrhart polynomial of a lattice polytope. **98e:11117a**
— (*with* Robins, Sinai) Erratum: "The Ehrhart polynomial of a lattice polytope". **98e:11117b**
Götze, Friedrich *see* **Bentkus, Vidmantas, 98h:11120**
Huxley, M. N. Integer points in a domain with smooth boundary. **98m:11104**
Jiménez-Urroz, Jorge *see* **Cilleruelo, Javier, 98d:11119**
Krätzel, Ekkehard Weighted lattice points in three-dimensional convex bodies and the number of lattice points in parts of elliptic paraboloids. **98e:11118**
Kuba, G. The number of lattice points below a logarithmic curve. (English summary) **98h:11121**
Müller, Wolfgang[2] On the average order of the lattice rest of a convex body. **98i:11083**
Nowak, Werner Georg Primitive lattice points in starlike planar sets. (English summary) **98e:11119**
Pinner, Christopher G. *see* **Borwein, David; et al., 98k:11135**
Randol, Burton On the number of integral lattice-points in dilations of algebraic polyhedra. (English summary) **98m:11105**
Robins, Sinai *see* **Diaz, Ricardo, 98e:11117a** *and* **98e:11117b**
Vergne, Michèle *see* **Brion, Michel, 98a:11132**

Items with secondary classifications in 11P21

Brion, Michel (*with* Vergne, Michèle) Residue formulae, vector partition functions and lattice points in rational polytopes. (English summary) **98e:52008**
Chamizo, Fernando Some applications of large sieve in Riemann surfaces. **98b:11099**
Nowak, Werner Georg On sums and differences of two relative prime cubes. II. (English summary) **98j:11073**
Ratcliffe, John G. (*with* Tschantz, Steven T.) On the representation of integers by the Lorentzian quadratic form. (English summary) **98h:11045**
Shaneson, Julius L. Characteristic classes, lattice points, and Euler-MacLaurin formulae. **98g:57041**
Tschantz, Steven T. *see* **Ratcliffe, John G., 98h:11045**
Vergne, Michèle *see* **Brion, Michel, 98e:52008**

11P32 Goldbach-type theorems; other additive questions involving primes

Agoh, Takashi Additive representations of integers. (English summary) **98m:11106**
Bohman, Jan (*with* Fröberg, Carl-Erik) Generalized Goldbach problems. (Swedish. English summary) **98i:11084**
Chiu, Shung-Fu (*with* Liu, Ming-Chit) On exceptional sets for numbers representable by binary sums. **98c:11107**
Choi, Kwok-Kwong Stephen A numerical bound for Baker's constant—some explicit estimates for small prime solutions of linear equations. (English summary) **98k:11137**
Coppola, G. (*with* Laporta, M. B. S.) On the representation of even integers as sum of two almost equal primes. (English summary) **98h:11122**
Deshouillers, J.-M. (*with* Effinger, G.; te Riele, Herman J. J.; Zinoviev, Dmitrii) A complete Vinogradov 3-primes theorem under the Riemann hypothesis. (English summary) **98g:11112**
Effinger, G. *see* **Deshouillers, J.-M.; et al., 98g:11112**
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Ge, Jun Another proposition related to Yu's conjecture. (Chinese. English and Chinese summaries) **98k:11138**
He, Yi De A hypothetical proof of Goldbach's conjecture and a necessary and sufficient condition for the truth of the conjecture. (Chinese. English and Chinese summaries) **98c:11108**
Jia, Chao Hua On the Piatetski-Shapiro-Vinogradov theorem. **98b:11107**
Jiang, Chunxuan (*with* Liang, Bing Gui) On the Yu-Goldbach prime theorem. (Chinese. Chinese summary)
Kan, Jia Hai *see* **Shan, Zun, 98g:11116**
Kawada, Koichi Note on the sum of cubes of primes and an almost prime. (English summary) **98f:11105**
Kumchev, A. (*with* Tolev, D. I.) An additive problem with prime numbers from a thin set. **98h:11123**
Languasco, A. Some results on Goldbach's problem. (English summary) **98f:11106**
— (*with* Perelli, A.) A pair correlation hypothesis and the exceptional set in Goldbach's problem. **98g:11113**
— A conditional result on Goldbach numbers in short intervals. **98k:11139a**
— A singular series average and Goldbach numbers in short intervals. **98k:11139b**
Laporta, M. B. S. A short intervals result for linear equations in two prime variables. (English summary) **98g:11114**
— *see also* **Coppola, G., 98h:11122**
Liang, Bing Gui *see* **Jiang, Chunxuan**
Liu, Jianya (*with* Zhan, Tao) The ternary Goldbach problem in arithmetic progressions. **98j:11077**
— (*with* Zhan, Tao) On a theorem of Hua. (English summary) **98k:11140**
Liu, Ming-Chit *see* **Chiu, Shung-Fu, 98c:11107**
Peneva, T. P. (*with* Tolev, D. I.) An additive problem with primes and almost-primes. **98j:11078**
Perelli, A. *see* **Languasco, A., 98g:11113**
Ribenboim, Paulo Errata and addenda: "The Catalan conjecture" [Bull. Soc. Catalana Mat. **11** (1996), no. 1, 95–105; MR 97h:11117]. (Catalan)
te Riele, Herman J. J. *see* **Deshouillers, J.-M.; et al., 98g:11112**
Saouter, Yannick Checking the odd Goldbach conjecture up to 10^{20}. (English summary) **98g:11115**
Shan, Zun (*with* Kan, Jia Hai) A generalization of Goldbach's problem. (Chinese. English and Chinese summaries) **98g:11116**
Timofeev, Nikolai M. Additive problems for numbers having a given number of prime divisors. (Russian. Russian summary) **98h:11124**
Tolev, D. I. *see* **Kumchev, A., 98h:11123** *and* **Peneva, T. P., 98j:11078**
Wang, Tian Ze The Goldbach problem for odd numbers under the generalized Riemann hypothesis. II. (Chinese. English and Chinese summaries) **98h:11125**
Zaccagnini, Alessandro Additive problems with prime numbers. (English summary) **98c:11109**
Zhan, Tao *see* **Liu, Jianya, 98j:11077** *and* **98k:11140**
Zinoviev, Dmitrii On Vinogradov's constant in Goldbach's ternary problem. (English summary) **98f:11107**
— *see also* **Deshouillers, J.-M.; et al., 98g:11112**

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Bauer, Claus A note on sums of five almost equal prime squares. (English summary) **98c:11110**
Hooley, Christopher On a problem of Hardy and Littlewood. **98b:11100**
Liu, Jianya (*with* Zhan, Tao) Estimation of exponential sums over primes in short intervals. II. **98g:11099**
Noda, Takumi On the Goldbach problem in algebraic number fields and the positivity of the singular integral. (English summary) **98a:11154**
Timofeev, Nikolai M. The Hardy and Liouville problem for numbers that have a given number of prime divisors. (Russian. Russian summary) **98i:11078**
Vinogradov, A. I. Farey arcs and series. (Russian. Russian summary) **98a:11134**
Zhan, Tao *see* **Liu, Jianya, 98g:11099**

11P55 Applications of the Hardy-Littlewood method [see also 11D85]

Bauer, Claus A note on sums of five almost equal prime squares. (English summary) **98c:11110**
Li, Hongze Diagonal cubic equations. **98i:11085**
Vaughan, R. C. ★ The Hardy-Littlewood method. (English summary) **98a:11133**
Vinogradov, A. I. Farey arcs and series. (Russian. Russian summary) **98a:11134**

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Car, Mireille Quadratic forms on $\mathbf{F}_q[T]$. (English summary) **98j:11025**
Coppola, G. (*with* Laporta, M. B. S.) On the representation of even integers as sum of two almost equal primes. (English summary) **98h:11122**
Daniel, Stephan On gaps between numbers that are sums of three cubes. **98c:11105**
Èminyan, K. M. On the representation of numbers with given properties of the binary expansion as sums of two squares. (Russian) **98m:11101**
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Liu, Jianya (*with* Zhan, Tao) The ternary Goldbach problem in arithmetic progressions. **98j:11077**
— (*with* Zhan, Tao) On a theorem of Hua. (English summary) **98k:11140**
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— Some new results on Waring's problem. (Chinese. English and Chinese summaries) **98e:11115**
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Noda, Takumi On the Goldbach problem in algebraic number fields and the positivity of the singular integral. (English summary) **98a:11154**
Peneva, T. P. (*with* Tolev, D. I.) An additive problem with primes and almost-primes. **98j:11078**
Shan, Zun (*with* Kan, Jia Hai) A generalization of Goldbach's problem. (Chinese. English and Chinese summaries) **98g:11116**
Skinner, C. M. Forms over number fields and weak approximation. (English summary) **98b:14021**
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11P81 Elementary theory of partitions [see also 05A17]

Agarwal, Ashok Kumar[1] (*with* Balasubramanian, Ramachandran) Generalized gonal numbers and a new class of partitions. **98d:11120**
— New classes of infinite 3-way partition identities. (English summary) **98d:11121**
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Bonelli, Antonio (*with* Ruffo, Stefano) Exchanges of "quanta" among distinguishable and indistinguishable objects. (English summary) **98i:11086**
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Bhargava, Srinivasamurthy A simple proof of the quintuple product identity. (English summary) **98e:33007**
Blecksmith, Richard (*with* Brillhart, John; Gerst, Irving) A constructive theory of triple and quintuple product identities of the second degree. (English summary) **98g:11047**
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Drost, John L. A shorter proof of the Ramanujan congruence modulo 5. **98k:11144**
Gerst, Irving *see* **Blecksmith, Richard; et al., 98g:11047**
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Zhu, Ping Tian (*with* Chen, Meixia) (a, b, k) $(k < 0)$-additive partition of positive integers. **98c:11012**

11P82 Analytic theory of partitions

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Berkovich, Alexander (*with* McCoy, Barry M.) Generalizations of the Andrews-Bressoud identities for the $N = 1$ superconformal model SM$(2, 4\nu)$. (English summary) **98k:11142**
— *see also* **Andrews, George E., 98m:11107**
Bshouty, Daoud (*with* Bshouty, Nader H.) A note on prime n-tuples. **98j:11081**
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Kiming, Ian On the asymptotics of the number of $\overline{p}$-core partitions of integers. **98f:11108**
— On the existence of $\overline{p}$-core partitions of natural numbers. **98f:11109**
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Báez-Duarte, Luis Hardy-Ramanujan's asymptotic formula for partitions and the central limit theorem. (English summary) **98b:60036**
Bhatia, D. P. (*with* Prasad, M. A.; Arora, D.) Asymptotic results for the number of multidimensional partitions of an integer and directed compact lattice animals. (English summary) **98f:82065**
Kang, Soon-Yi A new proof of Winquist's identity. **98c:11111**
Mitsui, Takayoshi On certain multiple series with functional equation in a totally real number field. II. **98m:11093**
Newman, Donald J. ★ Analytic number theory. (English summary) **98m:11001**
Ono, Ken (*with* Wilson, Brad) Parity of Fourier coefficients of modular forms. **98j:11033**
Pittel, Boris On a likely shape of the random Ferrers diagram. (English summary) **98m:60013**
Prasad, M. A. *see* **Bhatia, D. P.; et al., 98f:82065**
Wilson, Brad *see* **Ono, Ken, 98j:11033**
Wu, F. Y. The infinite-state Potts model and restricted multidimensional partitions of an integer. (English summary) **98i:82020**

11P83 Partitions; congruences and congruential restrictions

Alladi, Krishnaswami Refinements of Rogers-Ramanujan type identities. (English summary) **98e:11122**
Andrews, George E. (*with* Roy, Ranjan) Ramanujan's method in q-series congruences. (English summary) **98f:11110**
— (*with* de Oliveira Santos, J. P.) Rogers-Ramanujan type identities for partitions with attached odd parts. (English summary) **98k:11143**
Blecksmith, Richard (*with* Brillhart, John; Gerst, Irving) A lattice proof of a modular identity. (English summary) **98e:11123**
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Drost, John L. A shorter proof of the Ramanujan congruence modulo 5. **98k:11144**
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Kang, Soon-Yi A new proof of Winquist's identity. **98c:11111**
Kra, Irwin On a Ramanujan partition identity. **98i:11087**
Lewis, Richard P. The ranks of partitions modulo 2. (English summary) **98d:11122**
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Ono, Ken (*with* Sze, Lawrence) 4-core partitions and class numbers. **98d:11123**
— Odd values of the partition function. (English summary) **98d:11124**
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Items with secondary classifications in 11P83

Capparelli, S. Lie algebra representations, combinatorial identities and q-trinomial coefficients. (English summary) **98d:17033**
Ewell, John A. A note on a Jacobian identity. (English summary) **98k:33030**
Foda, Omar (*with* Quano, Yas-Hiro) Virasoro character identities from the Andrews-Bailey construction. (English summary) **98a:17041**
Huang, Sen-Shan Ramanujan's evaluations of Rogers-Ramanujan type continued fractions at primitive roots of unity. **98h:11012**
Ono, Ken (*with* Robbins, Neville; Wilson, Brad) Some recurrences for arithmetical functions. (English summary) **98e:11121**
Quano, Yas-Hiro *see* **Foda, Omar, 98a:17041**
Robbins, Neville *see* **Ono, Ken; et al., 98e:11121**
Warnaar, S. Ole The Andrews-Gordon identities and q-multinomial coefficients. (English summary) **98m:11108**
Wilson, Brad *see* **Ono, Ken; et al., 98e:11121**

11P99 None of the above, but in this section

Items with secondary classifications in 11P99

Stanchescu, Yonutz On the structure of sets with small doubling property on the plane. I. (English summary) **98k:11015**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

Koch, Helmut V. ★ Algebraic number theory. **98g:11118**
Pohst, Michael E. (*with* Zassenhaus, H.) ★ Algorithmic algebraic number theory. (English summary) **98f:11111**
Weyl, Hermann ★ Algebraic theory of numbers. (English summary) **98m:11110**
Zassenhaus, H. *see* **Pohst, Michael E., 98f:11111**

11R04 Algebraic numbers; rings of algebraic integers

Bartholomé, Andreas (*with* Porsch, Ulrich) Primitive Primteiler von $\Phi_d(a)$ in Ringen ganzer Zahlen. (German summary) [Primitive prime divisors of $\Phi_d(a)$ in rings of integers] **98d:11125**
Del Corso, I. On Kronecker's use of indeterminate coefficients. (English summary) **98c:11112**
Gethner, Ellen (*with* Stark, H. M.) Periodic Gaussian moats. (English summary) **98m:11111**
Ji, Chun Gang Normal integral bases in number fields of type $(2, 2, \cdots, 2)$. (Chinese. English and Chinese summaries) **98m:11112**
Massy, Richard (*with* Sodaïgui, Bouchaïb) Classes de Steinitz et extensions quaternioniennes. (English summary) [Steinitz classes and quaternionic extensions] **98h:11127**
Pohst, Michael E. Computational aspects of Kummer theory. (English summary) **98f:11112**
Porsch, Ulrich *see* **Bartholomé, Andreas, 98d:11125**
Roy, Damien (*with* Thunder, Jeffrey Lin) Bases of number fields with small height. (English summary) **98d:11126**
Sodaïgui, Bouchaïb *see* **Massy, Richard, 98h:11127**
Stark, H. M. *see* **Gethner, Ellen, 98m:11111**
Thunder, Jeffrey Lin *see* **Roy, Damien, 98d:11126**
Thuswaldner, Jörg M. The sum of digits function in number fields. (English summary) **98f:11088**

Items with secondary classifications in 11R04

Arledge, Jane (*with* Laca, Marcelo; Raeburn, Iain) Semigroup crossed products and Hecke algebras arising from number fields. (English summary) **98k:46111**
Beukers, Frits (*with* Zagier, Don) Lower bounds of heights of points on hypersurfaces. **98h:11082**
Cahen, Paul-Jean (*with* Chapman, Scott T.; Roegner, K.; Smith, William W.) Two classes of ideals determined by integer-valued polynomials. (English and Italian summaries) **98b:13006**
Chapman, Scott T. *see* **Cahen, Paul-Jean; et al., 98b:13006**
Cilleruelo, Javier (*with* Jiménez-Urroz, Jorge) Lattice points on hyperbolas. (English summary) **98d:11119**
Dedekind, Richard ★ Theory of algebraic integers. (English summary) **98h:11001**
Jarden, Moshe (*with* Razon, Aharon) Rumely's local global principle for algebraic P.$\mathscr{S}$C fields over rings. (English summary) **98d:11142**
Jiménez-Urroz, Jorge *see* **Cilleruelo, Javier, 98d:11119**
Laca, Marcelo *see* **Arledge, Jane; et al., 98k:46111**
Lamprecht, E. Verzweigungsordnungen, Differenten und Ganzheitsbasen bei Radikalerweiterungen. III. [Bifurcation orders, differents and integral bases in radical extensions. III.] **98k:11149**
Langmann, Klaus Picardexponent und rationale Punkte. [Picard exponent and rational points] **98c:11061**
Lee, Eun-Hee *see* **Park, Hwa-Sin, 98f:11116**
Masbaum, G. (*with* Roberts, Justin Deritter) A simple proof of integrality of quantum invariants at prime roots of unity. (English summary) **98h:57037**
Ono, Takashi (*with* Terasoma, Tomohide) On Hasse principle for $x^n = a$. **98k:11151**
Park, Hwa-Sin (*with* Lee, Eun-Hee) The ring of integers of $\mathbf{Q}(\sqrt{m}, \sqrt{n})$. **98f:11116**
Raeburn, Iain *see* **Arledge, Jane; et al., 98k:46111**
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Robertson, Leanne Power bases for cyclotomic integer rings. (English summary) **98m:11115**
Roegner, K. *see* **Cahen, Paul-Jean; et al., 98b:13006**
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11R06 PV-numbers and generalizations; other special algebraic numbers

Amoroso, Francesco On the heights of a product of cyclotomic polynomials. (English summary) **98f:11113**
Boyd, David W. The beta expansion for Salem numbers. **98k:11146**
Bugeaud, Yann On a property of Pisot numbers and related questions. **98c:11113**
Dresden, Gregory P. Orbits of algebraic numbers with low heights. (English summary) **98h:11128**
Dubickas, A. On the maximal conjugate of a totally real algebraic integer. (English and Lithuanian summaries) **98e:11124**
— The maximal conjugate of a non-reciprocal algebraic integer. (English and Lithuanian summaries) **98j:11083**
Erdős, Paul[1] (*with* Joó, Istvan; Schnitzer, Franz J.) On Pisot numbers. **98d:11127**
Flammang, V. Inégalités sur la mesure de Mahler d'un polynôme. (English and French summaries) [Inequalities for the Mahler measure of a polynomial] **98d:11128**
— (*with* Rhin, G.; Smyth, C. J.) The integer transfinite diameter of intervals and totally real algebraic integers. (English and French summaries) **98g:11119**
Gazeau, Jean Pierre Pisot-cyclotomic integers for quasilattices. (English summary) **98c:11114**
Hama, Masaki (*with* Imahashi, T.) Periodic β-expansions for certain classes of Pisot numbers. (English summary) **98m:11113**
Imahashi, T. *see* **Hama, Masaki, 98m:11113**
Joó, Istvan *see* **Erdős, Paul[1]; et al., 98d:11127**
Rhin, G. (*with* Smyth, C. J.) On the Mahler measure of the composition of two polynomials. **98b:11109**
— *see also* **Flammang, V.; et al., 98g:11119**
Schinzel, Andrzej A class of algebraic numbers. (English summary) **98i:11089**
Schnitzer, Franz J. *see* **Erdős, Paul[1]; et al., 98d:11127**

Smyth, C. J. *see* **Rhin, G., 98b:11109** *and* **Flammang, V.; et al., 98g:11119**

Items with secondary classifications in 11R06

Borwein, P. B. (*with* Pinner, Christopher G.) Polynomials with $\{0, +1, -1\}$ coefficients and a root close to a given point. (English summary) **98m:11014**

Bugeaud, Yann ★ Formes linéaires de logarithmes et applications. (French. French summary) [Linear forms in logarithms and applications] **98d:11092**

Dani, S. G. (*with* Navada, K. Gowri) Harmonious orbits of linear transformations. (English summary) **98f:43010**

Meyer, Yves Quasicrystals, Diophantine approximation and algebraic numbers. (English summary) **98i:52022**

Navada, K. Gowri *see* **Dani, S. G., 98f:43010**

Pinner, Christopher G. *see* **Borwein, P. B., 98m:11014**

Williams, R. F. Pisot-Vijayarghavan [Vijayaraghavan] numbers and positive matrices. (English summary) **98f:57025**

11R09 Polynomials (irreducibility, etc.)

Coupland, S. *see* **Mollin, R. A.; et al., 98a:11138**

Ferguson, Ronald Irreducible polynomials with many roots of equal modulus. **98f:11114**

Goddard, B. *see* **Mollin, R. A.; et al., 98a:11138**

Helou, Charles Cauchy-Mirimanoff polynomials. (French summary) **98k:11147**

Louboutin, Stéphane Resultants of cyclotomic polynomials. (English summary) **98a:11137**

Mollin, R. A. (*with* Goddard, B.; Coupland, S.) Polynomials of quadratic type producing strings of primes. (English summary) **98a:11138**

Pinner, Christopher G. (*with* Vaaler, Jeffrey D.) The number of irreducible factors of a polynomial. II. **98g:11120**

Vaaler, Jeffrey D. *see* **Pinner, Christopher G., 98g:11120**

Zhang, Shou Bo A reducibility criterion for polynomials with rational coefficients. (Chinese. English and Chinese summaries) **98d:11129**

Items with secondary classifications in 11R09

Grandcolas, Michel Diameters of complete sets of conjugate algebraic integers of small degree. (English summary) **98g:11145**

Spearman, Blair K. (*with* Spearman, Laura Y.; Williams, Kenneth S.) Quadratic subfields of the splitting field of a dihedral quintic trinomial $x^5 + ax + b$. (English summary) **98j:11102**

Spearman, Laura Y. *see* **Spearman, Blair K.; et al., 98j:11102**

Williams, Kenneth S. *see* **Spearman, Blair K.; et al., 98j:11102**

11R11 Quadratic extensions

Aslam, M. (*with* Husnine, Syed Muhammad; Majeed, A.) Modular group action on certain quadratic fields. (English summary) **98h:11129**

Burde, Klaus Zur Zerlegung von Primelementen quadratischer Zahlkörper in relativ-quadratischen Oberkörpern. (German summary) [On the decomposition of prime elements of quadratic number fields in relatively quadratic overfields] **98a:11139**

Cardon, David A. A Euclidean ring containing $\mathbf{Z}[\sqrt{14}]$. (English and French summaries) **98g:11121**

Husnine, Syed Muhammad *see* **Aslam, M.; et al., 98h:11129**

Ishikawa, Masaru (*with* Kitaoka, Yoshiyuki) On the distribution of units modulo prime ideals in real quadratic fields. (English summary) **98m:11114**

Johnson, David H. (*with* Queen, Clifford S.) Genus characters and the arithmetic of commutative monoids. (English summary) **98f:11115**

Kaplan, Pierre (*with* Mimura, Yoshio) Développement en fraction continue à l'entier supérieur, idéaux 0-réduits et un problème d'Eisenstein. [Highest-integer continued fraction expansion, 0-reduced ideals and a problem of Eisenstein] **98e:11125**

Kitaoka, Yoshiyuki *see* **Ishikawa, Masaru, 98m:11114**

Majeed, A. *see* **Aslam, M.; et al., 98h:11129**

Mimura, Yoshio *see* **Kaplan, Pierre, 98e:11125**

Mollin, R. A. Real prime-producing quadratics. (English summary) **98c:11115**

Queen, Clifford S. *see* **Johnson, David H., 98f:11115**

Sueyoshi, Yutaka On a comparison of the 4-ranks of the narrow ideal class groups of $\mathbf{Q}(\sqrt{m})$ and $\mathbf{Q}(\sqrt{-m})$. **98d:11130**

Tomita, Koshi Explicit representation of fundamental units of some real quadratic fields. II. (English summary) **98e:11116**

Items with secondary classifications in 11R11

Benjamin, Elliot Lower bounds on the 2-class number of the 2-Hilbert class field of imaginary quadratic number fields with elementary 2-class group of rank 3. (English summary) **98f:11123**

Bosma, Wieb (*with* Stevenhagen, Peter) On the computation of quadratic 2-class groups. (English and French summaries) **98e:11129a**

— *see also* **Errata: "On the computation of quadratic 2-class groups", 98e:11129b**

Daberkow, M. Computing with subfields. (English summary) **98k:11185**

Fukuda, Takashi Greenberg's conjecture and relative unit groups for real quadratic fields. (English summary) **98j:11091**

— Greenberg's conjecture and relative unit groups for real quadratic fields. (English summary) **98c:11118**

Hayashi, Yoshiki Numerische Berechnung der Geschlechter von den quadratischen Zahlkörpern für allgemeine Diskriminanten. (English summary) [Numerical calculation of the genera of quadratic number fields for general discriminants] **98b:11128**

Kim, Jae Moon Class numbers of real quadratic fields. (English summary) **98m:11117**

Lemmermeyer, Franz Gauss bounds of quadratic extensions. (English summary) **98h:11131**

Maire, Christian An example of an infinite tamely ramified Hilbert tower. (English summary) **98m:11124**

Mollin, R. A. Prime-producing quadratics. **98h:11113**

Murty, M. Ram The *abc* conjecture and exponents of class groups of quadratic fields. **98j:11098**

Qin, Hourong The sum of two squares in a quadratic field. **98e:11047**

Soriano, Florence Classes logarithmiques ambiges des corps quadratiques. [Ambiguous logarithmic classes of quadratic fields] **98a:11159**

Spearman, Blair K. (*with* Spearman, Laura Y.; Williams, Kenneth S.) Quadratic subfields of the splitting field of a dihedral quintic trinomial $x^5 + ax + b$. (English summary) **98j:11102**

Spearman, Laura Y. *see* **Spearman, Blair K.; et al., 98j:11102**

Stevenhagen, Peter *see* **Bosma, Wieb, 98e:11129a** *and* **Errata: "On the computation of quadratic 2-class groups", 98e:11129b**

Sueyoshi, Yutaka Comparison of the 4-ranks of the narrow ideal class groups of the quadratic fields $\mathbf{Q}(\sqrt{m})$ and $\mathbf{Q}(\sqrt{-m})$. (Japanese) **98k:11160**

Williams, Kenneth S. *see* **Spearman, Blair K.; et al., 98j:11102**

Zhang, Xianke Ideal class groups and their subgroups of real quadratic fields. (English summary) **98j:11100**

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"On the computation of quadratic 2-class groups" Erratum: "On the computation of quadratic 2-class groups" [J. Théor. Nombres Bordeaux **8** (1996), no. 2, 283–313; MR 98e:11129a] by W. Bosma and P. Stevenhagen. (French) **98e:11129b**

11R16 Cubic and quartic extensions

Alaca, Şaban p-integral bases of a cubic field. (English summary) **98h:11130**

Azizi, Abdelmalek Sur la capitulation des 2-classes d'idéaux de $\mathbf{Q}(\sqrt{d}, i)$. (English and French summaries) [Capitulation of the 2-ideal classes of $\mathbf{Q}(\sqrt{d}, i)$] **98d:11131**

Belabas, Karim (*with* Cohen, Henri) Binary cubic forms and cubic number fields. (English summary) **98j:11084**

Byeon, Dongho A note on class numbers of the simplest cubic fields. (English summary) **98i:11090**

Cohen, Henri *see* **Belabas, Karim, 98j:11084**

Haghighi, M. (*with* Miller, John D.) Computation of Hilbert sequence for composite quadratic extensions using different type of primes in $\mathbf{Q}$. (English summary) **98a:11140**

Kaneko, Kan On the cubic fields $\mathbf{Q}(\theta)$ defined by $\theta^3 - 3\theta + b^3 = 0$. (English summary) **98a:11141**

Lee, Eun-Hee *see* **Park, Hwa-Sin, 98f:11116**

Lemmermeyer, Franz Gauss bounds of quadratic extensions. (English summary) **98h:11131**

Miller, John D. *see* **Haghighi, M., 98a:11140**

Park, Hwa-Sin (*with* Lee, Eun-Hee) The ring of integers of $\mathbf{Q}(\sqrt{m}, \sqrt{n})$. **98f:11116**

Spearman, Blair K. (*with* Williams, Kenneth S.) The conductor of a cyclic quartic field using Gauss sums. (English summary) **98d:11132**

Vérant, M. Famille d'extensions quartiques non galoisiennes et totalement imaginaires. (English and French summaries) [Family of totally imaginary non-Galois quartic extensions] **98f:11117**

Washington, Lawrence C. A family of cubic fields and zeros of 3-adic L-functions. (English summary) **98e:11126**

Williams, Kenneth S. *see* **Spearman, Blair K., 98d:11132**

Items with secondary classifications in 11R16

Belabas, Karim Computing cubic fields in quasi-linear time. (English summary) **98a:11188**

— (*with* Cohen, Henri) Binary cubic forms and cubic number fields. (English summary) **98m:11027**

Byeon, Dongho Quadratic twists of elliptic curves associated to the simplest cubic fields. **98m:11047**

Chapman, Robin J. Automorphism polynomials in cyclic cubic extensions. (English summary) **98a:12004**

Chen, Yen-Mei J. The Selmer groups and the ambiguous ideal class groups of cubic fields. (English summary) **98a:11072**

Cohen, Henri *see* **Belabas, Karim, 98m:11027**

Daberkow, M. Computing with subfields. (English summary) **98k:11185**

Goren, Eyal Z. *see* **de Shalit, E., 98g:11071**

Kulkarni, Manisha V. Galois module structure of abelian quartic extensions over their quadratic subfields. (English summary) **98h:11145**

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Agoh, Takashi (*with* Mori, Kenichi[2]) Kummer type system of congruences and bases of Stickelberger subideals. (English summary) **98h:11132**

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Helou, Charles Proof of a conjecture of Terjanian for regular primes. (English summary) **98a:11142**

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— (*with* Trojovský, P.) On divisibility of the class number h^+ of the real cyclotomic fields $\mathbf{Q}(\zeta_p + \zeta_p^{-1})$ by primes $q \leq 5000$. **98j:11095**
— On divisibility of the class number h^+ of the real cyclotomic fields of prime degree l. (English summary) **98d:11136**
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— Determination of all imaginary abelian number fields with relative class numbers any 2-power, which are composita of imaginary abelian number fields with prime power conductors. (English summary) **98h:11140**
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Sjerve, Denis (*with* Yang, Qingjie) Conjugacy classes of p-torsion in $\mathrm{Sp}_{p-1}(\mathbf{Z})$. **98k:20082**
Taya, Hisao Iwasawa invariants of real abelian fields and cyclotomic elements (an introduction to the work of Masahito Kurihara). (Japanese) **98i:11092**
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Louboutin, Stéphane The imaginary cyclic sextic fields with class numbers equal to their genus class numbers. (English summary) **98k:11150**
Metsänkylä, Tauno Letter to the editor. Comment on: "On Demjanenko's matrix and Maillet's determinant for imaginary abelian number fields" [J. Number Theory **60** (1996), no. 1, 70–79; MR 98g:11122a] by H. Tsumura. **98g:11122b**
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Carter, James Edgar Steinitz classes of nonabelian extensions of degree p^3. **98b:11113**
Cohen, Henri (*with* Díaz y Díaz, F.; Olivier, Michel) Computing ray class groups, conductors and discriminants. (English summary) **98g:11128**
Czogała, Alfred (*with* Sładek, Andrzej) Higher degree Hilbert-symbol equivalence of number fields. (English summary) **98j:11089**
Díaz y Díaz, F. *see* **Cohen, Henri; et al., 98g:11128**
Dohmae, Kazuhiro A note on Sinnott's index formula. **98k:11156**
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Geyer, W.-D. (*with* Jensen, C. U.) Prodihedral groups as Galois groups over number fields. **98c:11119**
Jakubec, Stanislav Connection between congruences $n^{q-1} \equiv 1 \pmod{q^2}$ and divisibility of h^+. **98a:11145**
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Ji, Chun Gang Normal integral bases in number fields of type $(2, 2, \cdots, 2)$. (Chinese. English and Chinese summaries) **98m:11112**
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— CM-fields with cyclic ideal class groups of 2-power orders. (English summary) **98h:11139**
— Determination of all imaginary abelian number fields with relative class numbers any 2-power, which are composita of imaginary abelian number fields with prime power conductors. (English summary) **98h:11140**
Massy, Richard (*with* Sodaïgui, Bouchaïb) Classes de Steinitz et extensions quaternioniennes. (English summary) [Steinitz classes and quaternionic extensions] **98h:11127**
Nomura, Akito A remark on Boston's question concerning the existence of unramified p-extensions. II. **98h:11141**
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Park, Young Ho (*with* Kwon, Soun-Hi) Determination of all imaginary abelian sextic number fields with class number ≤ 11. **98i:11094**
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11R21 Other number fields

Czogała, Alfred (*with* Sładek, Andrzej) Higher degree Hilbert-symbol equivalence of number fields. (English summary) **98j:11089**
Lemmermeyer, Franz Unramified quaternion extensions of quadratic number fields. (English and French summaries) **98j:11090**
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Yamamura, Ken Maximal unramified extensions of imaginary quadratic fields of conductors. (Japanese) **98k:11152**
— Maximal unramified extensions of imaginary quadratic number fields of small conductors. **98a:11143**

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Spearman, Blair K. (*with* Spearman, Laura Y.; Williams, Kenneth S.) The subfields of the splitting field of a solvable quintic trinomial $X^5 + aX + b$.
— (*with* Spearman, Laura Y.; Williams, Kenneth S.) Quadratic subfields of the splitting field of a dihedral quintic trinomial $x^5 + ax + b$. (English summary) **98j:11102**
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11R23 Iwasawa theory

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— On the vanishing of Iwasawa invariants of certain cyclic extensions of $\mathbf{Q}$ with prime degree. (English summary) **98i:11091**
— (*with* Komatsu, Keiichi; Ozaki, Manabu; Taya, Hisao) On Iwasawa λ_p-invariants of relative real cyclic extensions of degree p. (English summary) **98k:11153**
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— (*with* Sumida, Hiroki) On the Iwasawa λ-invariant of the real p-cyclotomic field. (English summary) **98e:11128b**
— (*with* Sumida, Hiroki) Iwasawa λ-invariants of certain types of real abelian fields. (Japanese) **98j:11092**
— (*with* Sumida, Hiroki) On the Iwasawa invariants of certain real abelian fields. (English summary) **98e:11128a**
— Local units modulo Gauss sums. (English summary) **98k:11154**
— A note on Greenberg's conjecture and the *abc* conjecture. (English summary) **98j:11093**
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— *see also* **Fukuda, Takashi; et al., 98k:11153**
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Greenberg, Ralph The structure of Selmer groups. (English summary) **98m:11123**
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Ichimura, Humio On some congruences for units of local p-cyclotomic fields. **98a:11161**
Jaulent, J.-F. (*with* Sauzet, O.) Pro-l-extensions de corps de nombres l-rationnels. (English and French summaries) [Pro-l-extensions of l-rational number fields] **98h:11146**
Kim, Jae Moon Class numbers of real quadratic fields. (English summary) **98m:11117**
Kolster, M. (*with* Nguyen Quang Do, T.; Fleckinger, V.) Correction to: "Twisted S-units, p-adic class number formulas, and the Lichtenbaum conjectures" [Duke Math. J. **84** (1996), no. 3, 679–717; MR 97g:11136]. **98k:11172**
Li, Chaoqun (*with* Zhao, Jianqiang) Iwasawa theory of $\mathbf{Z}_p^d$-extensions over global function fields. (English summary) **98h:11150**
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Plater, Andrew Height pairings in families of deformations. **98d:11138**
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Urban, Eric Module de congruences pour GL(2) d'un corps imaginaire quadratique et théorie d'Iwasawa d'un corps CM biquadratique. [Congruence module for GL(2) of an imaginary quadratic field and Iwasawa theory of a biquadratic CM field] **98m:11035**
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Bayad, Abdelmejid (*with* Robert, Gilles) Amélioration d'une congruence pour certains éléments de Stickelberger quadratiques. (English and French summaries) [Improvement of a congruence for certain quadratic Stickelberger elements] **98h:11138**
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Geroldinger, Alfred Chains of factorizations in orders of global fields. **98f:11120**
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Bley, W. Computing associated orders and Galois generating elements of unit lattices. (English summary) **98a:11147**
Cohen, Henri (*with* Diaz y Diaz, F.; Olivier, Michel) Subexponential algorithms for class group and unit computations. (English summary) **98m:11138**
Diaz y Diaz, F. *see* **Cohen, Henri; et al., 98m:11138**
Fukuda, Takashi Greenberg's conjecture and relative unit groups for real quadratic fields. (English summary) **98j:11091**
Gaál, István (*with* Pohst, Michael E.) Power integral bases in a parametric family of totally real cyclic quintics. (English summary) **98a:11160**
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Gras, Georges (*with* Jeannin, Stéphane) Critère effectif de puissance p-ième dans un corps de nombres galoisien. (English summary) [Effective pth-power criterion in a Galois number field] **98m:11119**
Greither, Cornelius On normal integral bases in ray class fields over imaginary quadratic fields. **98e:11130**
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Hajir, Farshid (*with* Rodriguez Villegas, Fernando) Explicit elliptic units. I. **98k:11075**
Jeannin, Stéphane Tables des nombres de classes et unités des corps quintiques cycliques de conducteur $f \leq 10\,000$. [Tables of class numbers and units of cyclic quintic fields with conductor $f \leq 10\,000$] **98b:11129**
— *see also* **Gras, Georges, 98m:11119**
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Pohst, Michael E. (*with* Wildanger, K.) Tables of unit groups and class groups of quintic fields and a regulator bound. (English summary) **98d:11163**
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Scheidler, Renate Compact representation in real quadratic congruence function fields. (English summary) **98c:11126**
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11R29 Class numbers, class groups, discriminants

Belabas, Karim Crible et 3-rang des corps quadratiques. (English and French summaries) [Sieve and 3-rank of quadratic fields] **98b:11112**
Bosma, Wieb (*with* Stevenhagen, Peter) On the computation of quadratic 2-class groups. (English and French summaries) **98e:11129a**
— *see also* **Errata: "On the computation of quadratic 2-class groups", 98e:11129b**
Bulant, Michal On the parity of the class number of the field $\mathbf{Q}(\sqrt{p}, \sqrt{q}, \sqrt{r})$. **98k:11158**
Carter, James Edgar Steinitz classes of nonabelian extensions of degree p^3. **98b:11113**
Conner, P. E. (*with* Perlis, R.; Szymiczek, Kazimierz) Wild sets and 2-ranks of class groups. **98c:11120**
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— (*with* Trojovský, P.) On divisibility of the class number h^+ of the real cyclotomic fields $\mathbf{Q}(\zeta_p + \zeta_p^{-1})$ by primes $q \leq 5000$. **98j:11095**
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Kim, Jae Moon Class numbers of real quadratic fields. (English summary) **98m:11117**
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Sueyoshi, Yutaka Comparison of the 4-ranks of the narrow ideal class groups of the quadratic fields $\mathbf{Q}(\sqrt{m})$ and $\mathbf{Q}(\sqrt{-m})$. (Japanese) **98k:11160**
Szymiczek, Kazimierz Knebusch-Milnor exact sequence and parity of class numbers. (English summary) **98b:11114**
— *see also* **Conner, P. E.; et al., 98c:11120**
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Zhang, Xianke Ideal class groups and their subgroups of real quadratic fields. (English summary) **98j:11100**

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Errata:
"On the computation of quadratic 2-class groups" Erratum: "On the computation of quadratic 2-class groups" [J. Théor. Nombres Bordeaux **8** (1996), no. 2, 283–313; MR 98e:11129a] by W. Bosma and P. Stevenhagen. (French) **98e:11129b**

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Agoh, Takashi (*with* Mori, Kenichi[2]) Kummer type system of congruences and bases of Stickelberger subideals. (English summary) **98h:11132**
Azizi, Abdelmalek Sur la capitulation des 2-classes d'idéaux de $\mathbf{Q}(\sqrt{d}, i)$. (English and French summaries) [Capitulation of the 2-ideal classes of $\mathbf{Q}(\sqrt{d}, i)$] **98d:11131**
Bayad, Abdelmejid (*with* Robert, Gilles) Amélioration d'une congruence pour certains éléments de Stickelberger quadratiques. (English and French summaries) [Improvement of a congruence for certain quadratic Stickelberger elements] **98h:11138**
Belabas, Karim (*with* Cohen, Henri) Binary cubic forms and cubic number fields. (English summary) **98j:11084**
Boltje, Robert Class group relations from Burnside ring idempotents. (English summary) **98i:20006**
Byeon, Dongho A note on class numbers of the simplest cubic fields. (English summary) **98i:11090**
Cassou-Noguès, Philippe (*with* Jehanne, Arnaud) Parité du nombre de classes des S_4-extensions de $\mathbf{Q}$ et courbes elliptiques. [Parity of the class number of S_4-extensions of $\mathbf{Q}$ and elliptic curves] **98a:11070**
Chen, Yen-Mei J. The Selmer groups and the ambiguous ideal class groups of cubic fields. (English summary) **98a:11072**
— The Selmer groups of elliptic curves and the ideal class groups of quadratic fields. (English summary) **98d:11058**
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— (*with* Diaz y Diaz, F.; Olivier, Michel) Subexponential algorithms for class group and unit computations. (English summary) **98m:11138**
— (*with* Diaz y Diaz, F.; Olivier, Michel) Computing ray class groups, conductors and discriminants. (English summary) **98g:11128**
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Friesen, Christian (*with* van Wamelen, Paul) Class numbers of real quadratic function fields. **98d:11141**
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Johnson, David H. (*with* Queen, Clifford S.) Genus characters and the arithmetic of commutative monoids. (English summary) **98f:11115**
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— (*with* Wildanger, K.) Tables of unit groups and class groups of quintic fields and a regulator bound. (English summary) **98d:11163**
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Schoof, René Minus class groups of the fields of the lth roots of unity. (English summary) **98j:11085**
Schwarz, Wolfgang (*with* Zimmer, Horst Günter) Stickelberger ideal and signature of circular units. **98k:11157**
Soriano, Florence Familles d'extensions de corps de nombres l-rationnels. (English and French summaries) [Families of extensions of l-rational number fields] **98h:11136**
— Classes logarithmiques au sens restreint. (English summary) [Logarithmic classes in the narrow sense] **98e:11127**
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Sueyoshi, Yutaka On a comparison of the 4-ranks of the narrow ideal class groups of $\mathbf{Q}(\sqrt{m})$ and $\mathbf{Q}(\sqrt{-m})$. **98d:11130**
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— The Demjanenko matrix of a general imaginary abelian field. (Japanese) **98j:11088**
— *see also* **Metsänkylä, Tauno, 98g:11122b**
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11R32 Galois theory

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Gannon, Terry (*with* Walton, Mark A.) Galois relations on knot invariants. (English summary) **98d:57012**
Geyer, W.-D. (*with* Jensen, C. U.) Prodihedral groups as Galois groups over number fields. **98c:11119**
Harari, David (*with* Leichtnam, Eric) Extension du phénomène de brisure spontanée de symétrie de Bost-Connes au cas des corps globaux quelconques. [Extension of Bost-Connes spontaneous symmetry breaking to the case of arbitrary global fields] **98h:11147**
Helou, Charles Cauchy-Mirimanoff polynomials. (French summary) **98k:11147**
Ishkhanov, V. V. (*with* Lur'e, B. B.; Faddeev, D. K.) ★ The embedding problem in Galois theory. (English summary) **98c:12007**
Jehanne, Arnaud *see* **Cassou-Noguès, Philippe, 98a:11069**
Jensen, C. U. *see* **Geyer, W.-D., 98c:11119**
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Leichtnam, Eric *see* **Harari, David, 98h:11147**
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11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [see also 20C10]

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Aiba, Akira² Carlitz modules and Galois module structure. II. (English summary) **98k:11163**
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— (*with* Flach, M.) Motivic L-functions and Galois module structures. **98g:11127**
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— On normal bases of some ring extensions in number fields. I. **98m:11121**
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— *see also* **Ritter, Jürgen, 98a:11149; 98a:11150** *and* **Gruenberg, K. W., 98j:11103**

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— (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) Riemann-Roch type theorems for arithmetic schemes with a finite group action. **98e:14006**
Erez, Boas *see* **Chinburg, Ted; et al., 98e:14006** *and* **98j:14025**
Massy, Richard (*with* Sodaïgui, Bouchaïb) Classes de Steinitz et extensions quaternioniennes. (English summary) [Steinitz classes and quaternionic extensions] **98h:11127**
Pappas, Georgios On torsion line bundles and torsion points on abelian varieties. **98m:11059**
— *see also* **Chinburg, Ted; et al., 98e:14006** *and* **98j:14025**
Schoof, René Minus class groups of the fields of the lth roots of unity. (English summary) **98j:11085**
Snaith, Victor P. Local fundamental classes derived from higher-dimensional K-groups. (English summary) **98i:19001**
— Local fundamental classes derived from higher-dimensional K-groups. II. (English summary) **98i:19002**
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11R34 Galois cohomology [see also 12Gxx, 16H05, 19A31]

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Greenberg, Ralph The structure of Selmer groups. (English summary) **98m:11123**
Jaulent, J.-F. (*with* Sauzet, O.) Pro-l-extensions de corps de nombres l-rationnels. (English and French summaries) [Pro-l-extensions of l-rational number fields] **98h:11146**
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Parimala, R. (*with* Sujatha, R.) Hasse principle for Witt groups of function fields with special reference to elliptic curves. **98f:11067**
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11R37 Class field theory

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Dummit, David S. (*with* Hayes, David R.) Checking the p-adic Stark conjecture when p is Archimedean. (English summary) **98c:11124**
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Azizi, Abdelmalek Sur la capitulation des 2-classes d'idéaux de $\mathbf{Q}(\sqrt{d}, i)$. (English and French summaries) [Capitulation of the 2-ideal classes of $\mathbf{Q}(\sqrt{d}, i)$] **98d:11131**
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Maire, Christian Finitude de tours et p-tours T-ramifiées modérées, S-décomposées. (English and French summaries) [Finiteness of S-decomposed T-tamely ramified towers and p-towers] **98a:11146**
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Niederreiter, Harald (*with* Xing, Chao Ping) Global function fields with many rational places over the ternary field. **98j:11110**
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11R39 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E55]

Gelbart, Stephen (*with* Rogawski, Jonathan D.; Soudry, David) Endoscopy, theta-liftings, and period integrals for the unitary group in three variables. **98m:11125**
Jacquet, Hervé Principal L-functions for $GL(n)$. **98k:11169**
Knapp, Anthony W. (*with* Rogawski, Jonathan D.) Applications of the trace formula. **98j:11105**
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Borel, Armand ★ Automorphic forms on $SL_2(\mathbf{R})$. (English summary) **98j:11028**
Cassou-Noguès, Philippe (*with* Jehanne, Arnaud) Formes primitives et représentations galoisiennes de type octaédral. (English and French summaries) [Primitive forms and Galois representations of octahedral type] **98a:11069**
Flicker, Yuval Z. On the symmetric square. Unit elements. (English summary) **98a:11065**
Jarvis, Frazer On Galois representations associated to Hilbert modular forms. (English summary) **98h:11067**
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11R42 Zeta functions and L-functions of number fields [see also 11M41, 19F27]

Gritsenko, S. A. On the zeros of functions of a special form that are connected with Hecke L-functions of imaginary quadratic fields. (Russian. Russian summary) **98b:11117**
Jenkner, Wolfgang Sur les fonctions zêta attachées aux classes de rayon. [Zeta functions associated with ray classes] **98e:11131**
Kawada, Koichi On a zero density estimate for Dedekind zeta functions of the fields $\mathbf{Q}(n^{1/k})$. (Japanese) (*see* **98c:11002**)
Pestour, Michel Valeurs en $s = 1$ de fonctions L. [Values of L-functions at $s = 1$] **98f:11125**
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Sõhne, Peter An upper bound for Hecke zeta-functions with Groessencharacters. (English summary) **98k:11170**
Tangedal, Brett A. A question of Stark. (English summary) **98j:11107**
Tollis, Emmanuel Zeros of Dedekind zeta functions in the critical strip. (English summary) **98d:11140**
Tsuyumine, Shigeaki On values of L-functions of totally real algebraic number fields at integers. **98a:11153**

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Grundman, H. G. Hilbert modular varieties of Galois quartic fields. (English summary) **98c:11040**
Harari, David (*with* Leichtnam, Eric) Extension du phénomène de brisure spontanée de symétrie de Bost-Connes au cas des corps globaux quelconques. [Extension of Bost-Connes spontaneous symmetry breaking to the case of arbitrary global fields] **98h:11147**
Hooley, Christopher On a problem of Hardy and Littlewood. **98b:11100**
Johnson, David H. (*with* Queen, Clifford S.) Genus characters and the arithmetic of commutative monoids. (English summary) **98f:11115**
Kolster, M. (*with* Nguyen Quang Do, T.; Fleckinger, V.) Correction to: "Twisted S-units, p-adic class number formulas, and the Lichtenbaum conjectures" [Duke Math. J. **84** (1996), no. 3, 679–717; MR 97g:11136]. **98k:11172**
Leichtnam, Eric *see* **Harari, David, 98h:11147**
Li, Xian-Jin The positivity of a sequence of numbers and the Riemann hypothesis. (English summary) **98d:11101**
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— The imaginary cyclic sextic fields with class numbers equal to their genus class numbers. (English summary) **98k:11150**
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— On zeta functions and Iwasawa modules. (English summary) **98k:11155**
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Ritter, Jürgen (*with* Weiss, Alfred R.) Cohomology of units and L-values at zero. **98a:11150**
Rogawski, Jonathan D. Functoriality and the Artin conjecture. **98j:11106**
Segal, Dan Ideals of finite index in a polynomial ring. **98a:13005**
Shimada, Tutomu Kummer's lemma for some cyclotomic fields. **98k:11148**
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Yang, Tonghai Common zeros of theta functions and central Hecke L-values of CM number fields of degree 4. **98k:11061**
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— (*with* Stevenhagen, Peter) Prime divisors of Lucas sequences. **98i:11098**
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Ishikawa, Masaru (*with* Kitaoka, Yoshiyuki) On the distribution of units modulo prime ideals in real quadratic fields. (English summary) **98m:11114**
Kimura, Iwao Relative 3 class numbers of quadratic extensions of algebraic number fields and relative Iwasawa invariants. (Japanese) **98j:11094**
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11R47 Other analytic theory [see also 11Nxx]

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Pappalardi, F. On Hooley's theorem with weights. (English summary) **98c:11102**
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11R52 Quaternion and other division algebras: arithmetic, zeta functions

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Mori, A. Power series expansions of modular forms at CM points. (English summary) **98d:11047**

Serre, Jean-Pierre Two letters on quaternions and modular forms (mod p). (English summary) **98b:11049**
Shimura, Goro ★ Euler products and Eisenstein series. (English summary) **98h:11057**
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11R54 Other algebras and orders, and their zeta and L-functions [see also 11S45, 16H05, 16Kxx]

Agoh, Takashi Stickelberger subideals for a prime modulus related to Kummer-type congruences. (English summary) **98k:11171**
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Johansson, Stefan Traces in arithmetic Fuchsian groups. (English summary) **98g:11046**

11R56 Adèle rings and groups

Rhodes, John A. The theta multiplier for number fields via p-adic planes. (English summary) **98i:11099**

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Sato, Fumihiro Report on the convergence of zeta functions associated with prehomogeneous vector spaces. **98d:11104**

11R58 Arithmetic theory of algebraic function fields [see also 14–XX]

Albis González, Víctor Samuel (*with* Chaparro, Raúl) On a conjecture of Borevich and Shafarevich. (English and Spanish summaries) **98g:11130**
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Friesen, Christian (*with* van Wamelen, Paul) Class numbers of real quadratic function fields. **98d:11141**
Garcia, Arnaldo (*with* Stichtenoth, Henning; Thomas, Michael[2]) On towers and composita of towers of function fields over finite fields. (English summary) **98e:11132**
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Li, Chaoqun (*with* Zhao, Jianqiang) Iwasawa theory of $\mathbf{Z}_p^d$-extensions over global function fields. (English summary) **98h:11150**
— (*with* Zhao, Jianqiang) Class number growth of a family of $\mathbf{Z}_p$-extensions over global function fields. **98m:11127**
Müller, Peter[1] A Weil-bound free proof of Schur's conjecture. (English summary) **98d:11143**
Niederreiter, Harald (*with* Xing, Chao Ping) Global function fields with many rational places over the ternary field. **98j:11110**
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— On the index of cyclotomic units in characteristic p and its applications. **98c:11127**
Yu, Jing (*with* Yu, Jiu-Kang) A note on a geometric analogue of Ankeny-Artin-Chowla's conjecture. (English summary) **98g:11131**
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Aiba, Akira[3] Carlitz modules and Galois module structure. II. (English summary) **98k:11163**
Angles, Bruno On some characteristic polynomials attached to finite Drinfeld modules. **98d:11062**
Denis, Laurent Problèmes diophantiens sur les t-modules. (French summary) [Diophantine problems on t-modules] **98f:11061**
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Green, Barry Geometric families of constant reductions and the Skolem property. (English summary) **98k:11084**
Jaulent, J.-F. (*with* Michel, Alexis) Classes des corps surcirculaires et des corps de fonctions. [Classes of supercircular fields and function fields] **98f:11118**
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Morton, Patrick Periods of maps on irreducible polynomials over finite fields. **98d:11075**
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Kolster, M. (*with* Nguyen Quang Do, T.; Fleckinger, V.) Correction to: "Twisted S-units, p-adic class number formulas, and the Lichtenbaum conjectures" [Duke Math. J. **84** (1996), no. 3, 679–717; MR 97g:11136]. **98k:11172**
Nguyen Quang Do, T. *see* **Kolster, M.; et al., 98k:11172**
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— Classes logarithmiques ambiges des corps quadratiques. [Ambiguous logarithmic classes of quadratic fields] **98a:11159**
Urbanowicz, Jerzy (*with* Wójcik, Ambroży) On linear congruence relations related to 2-adic dilogarithms. (English summary) **98d:11146**
Vazzana, A. On the 2-primary part of K_2 of rings of integers in certain quadratic number fields. **98d:11147**
— Elementary abelian 2-primary parts of $K_2\mathscr{O}$ and related graphs in certain quadratic number fields. **98g:11132**
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Keune, Frans Quadratic number fields having $\{-1,-1\}$ as a non-trivial element of their wild kernel. (English summary) **98d:19003**
Levin, Andrei Mikhailovich Elliptic polylogarithms: an analytic theory. (English summary) **98d:11048**
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Rolshausen, Klaus (*with* Schappacher, Norbert) On the second K-group of an elliptic curve. **98k:11091**
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11R80 Totally real and totally positive fields [see also 12J15]

Gaál, István (*with* Pohst, Michael E.) Power integral bases in a parametric family of totally real cyclic quintics. (English summary) **98a:11160**
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Qiu, Weisheng On the multiplier conjecture. (English summary) **98a:05027**

11Sxx Algebraic number theory: local and p-adic fields

11S05 Polynomials

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11S15 Ramification and extension theory

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Sharifi, Romyar T. Ramification groups of nonabelian Kummer extensions. (English summary) **98e:11135**
de Smit, Bart The different and differentials of local fields with imperfect residue fields. (English summary) **98d:11148**
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Elder, G. Griffith (*with* Madan, Manohar L.) Galois module structure of the integers in wildly ramified $C_p \times C_p$ extensions. (English summary) **98g:11134**
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Ramero, L. Fourier transforms in geometry and arithmetic. (English summary) **98e:14017**

11S20 Galois theory

Miyata, Yoshimasa On the invariant factors of Kummer orders in the rings of integers of p-adic number fields of degree p^2. (English summary) **98g:11133**
Popescu, Nicolae (*with* Zaharescu, Alexandru) On the main invariant of an element over a local field. **98e:11136**
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Lur'e, B. B. *see* **Ishkhanov, V. V.; et al.**, **98c:12007**
Sharifi, Romyar T. Ramification groups of nonabelian Kummer extensions. (English summary) **98e:11135**
Yamagata, Shuji Integral representations of Galois groups of local fields. **98k:11174**

11S23 Integral representations

Byott, Nigel P. Galois structure of ideals in wildly ramified abelian p-extensions of a p-adic field, and some applications. (English and French summaries) **98h:11152**
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Madan, Manohar L. *see* **Elder, G. Griffith**, **98g:11134**
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11S31 Class field theory; p-adic formal groups [see also 14L05]

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Bell, Robert A. On properties of the n-dimensional norm residue symbol in higher local class field theory. (English summary) **98d:11149**
— On the properties of the Vostokov and Parshin pairing in higher local class field theory. (English summary) **98d:11150**
Benois, Denis Périodes p-adiques et lois de réciprocité explicites. [p-adic periods and explicit reciprocity laws] **98m:11128**
Fesenko, I. B. Complete discrete valuation fields. Abelian local class field theories. **98a:11162**
Koch, Helmut V. (*with* Kukkuk, Susanne; Labute, John) Nilpotent local class field theory. **98j:11113**
Kukkuk, Susanne *see* **Koch, Helmut V.; et al.**, **98j:11113**
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Li, Hua-Chieh p-adic dynamical systems and formal groups. **98a:11163**
— Isogenies between dynamics of formal groups. **98a:11164**
Smirnov, A. L. Isogenies of height one and filtrations of formal groups. (English summary) **98a:11165**
Spiess, Michael Class formations and higher-dimensional local class field theory. (English summary) **98b:11120**

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Abrashkin, V. A. Explicit formulas for the Hilbert symbol of a formal group over Witt vectors. (Russian. Russian summary) **98j:14060**
Byott, Nigel P. Galois structure of ideals in wildly ramified abelian p-extensions of a p-adic field, and some applications. (English and French summaries) **98h:11152**
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Li, Wen-Ch'ing Winnie Ideal class groups and Galois modules. **98j:11096**
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11S37 Langlands-Weil conjectures, nonabelian class field theory [see also 11Fxx, 22E50]

Bushnell, Colin J. (*with* Henniart, Guy) Local tame lifting for $GL(N)$. I. Simple characters. **98m:11129**
— (*with* Henniart, Guy) An upper bound on conductors for pairs. (English summary) **98h:11153**
Harris, Michael Supercuspidal representations in the cohomology of Drinfel'd upper half spaces; elaboration of Carayol's program. **98i:11100**
Heiermann, Volker Sur l'espace des représentations irréductibles du groupe de Galois d'un corps local. (English and French summaries) [On the space of irreducible representations of the Galois group of a local field] **98a:11166**
Henniart, Guy *see* **Bushnell, Colin J.**, **98h:11153** *and* **98m:11129**

Items with secondary classifications in 11S37

Barbasch, Dan The spherical dual for p-adic groups. **98k:22068**
Baruch, Ehud Moshe On Bessel distributions for GL_2 over a p-adic field. (English summary) **98k:22042**
Chriss, Neil A geometric construction of the Iwahori-Hecke algebra for unramified groups. (English summary) **98e:22011**
Courtès, François Sur le transfert des intégrales orbitales pour les groupes linéaires (cas p-adique). (English and French summaries) [On the transfer of orbital integrals for linear groups (p-adic case)] **98i:22023**
Ngô, Bao Châu Le lemme fondamental de Jacquet et Ye en caractéristiques égales. (English and French summaries) [The fundamental lemma of Jacquet and Ye in positive characteristic] **98m:11045**
Reeder, Mark Whittaker models and unipotent representations of p-adic groups. **98h:22022**
Takahashi, Tetsuya On the irreducible very cuspidal representations. II. **98k:22075**

11S40 Zeta functions and L-functions [see also 11M41, 19F27]

Deitmar, Anton Geometric zeta-functions on p-adic groups. (English summary) **98m:11130**
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Hosokawa, Hiroshi Some results on Igusa local zeta functions associated with simple prehomogeneous vector spaces. **98d:11151**
Kimura, Tatsuo (*with* Fujinaga, Makiko; Kogiso, Takeyoshi) On functional equations of prehomogeneous zeta distributions over a local field of characteristic p. (English summary) **98g:11136**
— (*with* Kogiso, Takeyoshi; Fujinaga, Makiko) Fundamental theorem of prehomogeneous vector spaces of characteristic p. (English summary) **98d:11152**
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Kozuka, Kazuhito The relative Lubin-Tate formal groups and p-adic interpolating functions. **98h:11154**
Saito, Hiroshi[1] Explicit formula of orbital p-adic zeta functions associated to symmetric and Hermitian matrices. **98f:11128**

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Washington, Lawrence C. A family of cubic fields and zeros of 3-adic L-functions. (English summary) **98e:11126**

11S45 Algebras and orders, and their zeta functions [see also 11R52, 11R54, 16H05, 16Kxx]

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Morava, Jack Stable homotopy and local number theory. **98g:55010**

11S70 K-theory of local fields [see also 19Fxx]

Zhukov, I. B. Milnor and topological K-groups of higher-dimensional complete fields. (Russian) **98m:11131**

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Bell, Robert A. On properties of the n-dimensional norm residue symbol in higher local class field theory. (English summary) **98d:11149**
— On the properties of the Vostokov and Parshin pairing in higher local class field theory. (English summary) **98d:11150**
Fesenko, I. B. Complete discrete valuation fields. Abelian local class field theories. **98a:11162**
Osipov, D. V. Adelic constructions of direct images of differentials and symbols. (Russian. Russian summary) **98k:11093**

11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)

Dąbrowski, Andrzej Bogdan A note on p-adic q-ζ-functions. (English summary) **98c:11128**

Dragović, Branko G. On some p-adic series with factorials. **98i:11101**
Endo, Mikihiko Analytic properties of functions represented by p-adic integration. **98k:11175**
Gouvêa, Fernando Q. ★ p-adic numbers. (English summary) **98h:11155**
Hatada, Kazuyuki On p-adic convergent power series of several variables. **98e:11137**
Kim, Han Soo (*with* Kim, Taekyun) A note on p-adic analogue of hypergeometric functions. **98a:11167**
Kim, Taekyun *see* **Kim, Han Soo, 98a:11167**
Kim, Yong Sup On p-adic analogue of Kummer's theorem. (English summary) **98a:11168**
Sarmant-Durix, Marie-Claude Caractères p-adiques d'un groupe de produits méromorphes. [p-adic characters of a group of meromorphic products] **98i:11102**
Veys, Willem Zeta functions for curves and log canonical models. **98k:11176**
Vladimirov, V. S. Adelic formulas for gamma- and beta-functions in algebraic number fields. (English summary) **98h:11156**
Woodcock, C. F. Special p-adic analytic functions and Fourier transforms. **98a:11169**
— The automorphism group of a p-adic convolution algebra. **98k:11177**

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Bayad, Abdelmejid Valuation q-adique et relation de distribution additive pour certaines fonctions q-périodiques. (French summary) [q-adic valuation and additive distribution relation for certain q-periodic functions] **98d:11061**
Bertolin, Cristiana G-fonctions et cohomologie des hypersurfaces singulières. (English summary) [G-functions and cohomology of singular hypersurfaces] **98m:11064**
Cherry, William A. (*with* Ye, Zhuan) Non-Archimedean Nevanlinna theory in several variables and the non-Archimedean Nevanlinna inverse problem. (English summary) **98c:11072**
Đorđević, Goran S. (*with* Dragović, Branko G.) On p-adic functional integration. (English summary) **98e:81095**
Dragović, Branko G. *see* **Đorđević, Goran S., 98e:81095**
Dwork, Bernard M. On exponents of p-adic differential modules. **98h:12008**
Endo, Mikihiko (*with* Escassut, Alain) A counter example of p-adic Hartogs theorem on a product of closed disks. **98e:32060**
Escassut, Alain *see* **Endo, Mikihiko, 98e:32060**
Fujinaga, Makiko *see* **Kimura, Tatsuo; et al., 98d:11152**
van Hamme, L. Some conjectures concerning partial sums of generalized hypergeometric series. **98k:33011**
Hosokawa, Hiroshi Some results on Igusa local zeta functions associated with simple prehomogeneous vector spaces. **98d:11151**
(Kąkol, Jerzy) *see* **p-adic functional analysis, 98b:46006**
Kim, Han Soo (*with* Kim, Taekyun) Some congruences for Bernoulli numbers. II. **98g:11018**
Kim, Taekyun *see* **Kim, Han Soo, 98g:11018**
Kimura, Tatsuo (*with* Kogiso, Takeyoshi; Fujinaga, Makiko) Fundamental theorem of prehomogeneous vector spaces of characteristic p. (English summary) **98d:11152**
Kochubeĭ, A. N. Stochastic integrals and stochastic differential equations over the field of p-adic numbers. (English summary) **98k:60087**
Kogiso, Takeyoshi *see* **Kimura, Tatsuo; et al., 98d:11152**
Lawrence, Ruth J. Witten-Reshetikhin-Turaev invariants of 3-manifolds as holomorphic functions. (English summary) **98b:57031**
(Pérez-Garcia, Cristina) *see* **p-adic functional analysis, 98b:46006**
Rhodes, John A. The theta multiplier for number fields via p-adic planes. (English summary) **98i:11099**
(Schikhof, W. H.) *see* **p-adic functional analysis, 98b:46006**
Setoyanagi, Minoru Note on Clark's theorem for p-adic convergence. (English summary) **98d:12004**
Varadarajan, V. S. Path integrals for a class of p-adic Schrödinger equations. (English summary) **98m:81083**
Woodcock, C. F. Divisibility and squares in a p-adic convolution algebra. **98g:46113**
Ye, Zhuan *see* **Cherry, William A., 98c:11072**

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p-adic Functional Analysis ★ p-adic functional analysis. **98b:46006**
Nijmegen ★ p-adic functional analysis. **98b:46006**
p-adic functional analysis ★ p-adic functional analysis. **98b:46006**

11S85 Other nonanalytic theory

De Smedt, Stany Approximation lattices of p-adic numbers. **98f:11129**
Dragović, Branko G. On p-adic series with rational sums. (English summary) **98k:11178**
Madić, Jovan (*with* Stanimirović, Predrag S.) Mathematical spectra and finite-segment p-adic number systems. (English summary) **98c:11129**
Robert, Alain Euclidean models of p-adic spaces. **98f:11130**
Stanimirović, Predrag S. *see* **Madić, Jovan, 98c:11129**

Items with secondary classifications in 11S85

Adelberg, Arnold Erratum: "Congruences of p-adic integer order Bernoulli numbers" [J. Number Theory **59** (1996), no. 2, 374–388; MR 97e:11028]. **98a:11176**
Dai, Zong Duo *see* **Qi, Wen Feng, 98f:11019**
(Kąkol, Jerzy) *see* **p-adic functional analysis, 98b:46006**
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Qi, Wen Feng (*with* Daí, Zong Duo) The trace representation of sequences and the structural analysis of the space of nonlinear filtered sequences over $\mathbf{Z}/(p^d)$. (Chinese. English and Chinese summaries) **98f:11019**
(Schikhof, W. H.) *see* **p-adic functional analysis, 98b:46006**
Scowcroft, Philip More on imaginaries in p-adic fields. **98i:03052**
Vladimirov, V. S. Some applications of p-adic numbers in mathematical physics. (English summary) **98b:11167**

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p-adic Functional Analysis ★ p-adic functional analysis. **98b:46006**
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p-adic functional analysis ★ p-adic functional analysis. **98b:46006**

11S99 None of the above, but in this section

Items with secondary classifications in 11S99

De Smedt, Stany (*with* Khrennikov, Andrei) Dynamical systems and theory of numbers. (English summary) **98g:58161**
Đorđević, Goran S. (*with* Dragović, Branko G.) p-adic path integrals for quadratic actions (English summary) **98g:81109**
Dragović, Branko G. *see* **Đorđević, Goran S., 98g:81109**
Khrennikov, Andrei *see* **De Smedt, Stany, 98g:58161**
Li, Hua-Chieh p-adic dynamical systems and formal groups. **98a:11163**
— Isogenies between dynamics of formal groups. **98a:11164**
Missarov, M. D. p-adic φ^4-theory as a functional equation problem. (English summary) **98b:81149**
Yang, Jae-Hyun Supplementary note on the Freund-Witten adelic formula for Veneziano amplitudes. **98b:81218**

11Txx Finite fields and commutative rings (number-theoretic aspects)

11T06 Polynomials

Abhyankar, Shreeram S. Factorizations over finite fields. (English summary) **98c:11130**
Beard, J. T. B., Jr. (*with* Link, M. Leanne) Iterated sums of polynomial divisors. (English summary) **98j:11114**
Bernardin, Laurent On square-free factorization of multivariate polynomials over a finite field. (English summary) **98g:11137**
Blake, Ian F. (*with* Gao, Shuhong; Lambert, Robert J.) Construction and distribution problems for irreducible trinomials over finite fields. (English summary) **98a:11170**
— (*with* Gao, Shuhong; Mullin, Ronald C.) Specific irreducible polynomials with linearly independent roots over finite fields. (English summary) **98a:11171**
Bogusiavsky, M. On the number of solutions of polynomial systems. (English summary) **98m:11132**
Chang, Byung-Hwa *see* **Park, Bongjoo; et al., 98i:11105**
Chang, Taejoo *see* **Park, Bongjoo; et al., 98i:11105**
Chapman, Robin J. Completely normal elements in iterated quadratic extensions of finite fields. (English summary) **98a:11172**
Chu, W. M. Construction of irreducible polynomials using cubic transformation. (English summary) **98i:11103a**
— *see also* **Scheerhorn, A., 98i:11103b**
Cohen, Stephen D. (*with* Matthews, Rex W.) Monodromy groups of classical families over finite fields. (English summary) **98f:11131**
Ganz, Jürg Factoring polynomials using binary representations of finite fields. (English summary) **98e:11138**
Gao, Shuhong *see* **Blake, Ian F.; et al., 98a:11170** *and* **98a:11171**
García-Roig, J.-L. (*with* Salillas, J.) On a Pythagorean functional equation involving finite fields. **98m:11133**
Gomez-Calderon, Javier The radical factors of $f(x) - f(y)$ over finite fields. (English summary) **98m:11134**
Ham, Kie H. (*with* Mullen, Gary L.) Distribution of irreducible polynomials of small degrees over finite fields. (English summary) **98c:11131**
Hensley, Douglas The distribution of reciprocal pairs modulo polynomials over a finite field. (English summary) **98a:11173**
Hidber, C. A generalisation of the Cantor-Zassenhaus algorithm. (English summary) **98k:11179**
Hong, Shao Fang Additive characters and orthogonal families of multivariate polynomials over residue class rings. (Chinese. Chinese summary)
Knopfmacher, Arnold (*with* Manstavičius, Eugenijus) On the largest degree of an irreducible factor of a polynomial in $\mathbf{F}_q[X]$. (Russian. Lithuanian summary) **98e:11139**
Lambert, Robert J. *see* **Blake, Ian F.; et al., 98a:11170**
Lee, June Bok (*with* Park, Young Ho) Some permuting trinomials over finite fields. (English summary) **98i:11104**
Lenstra, H. W., Jr. (*with* Zieve, M.) A family of exceptional polynomials in characteristic three. (English summary) **98a:11174**
Liang, Joseph J. (*with* Sun, Jung-Fung) On the irreducibility of some general polynomial over a finiter [finite] field. (English summary) **98a:11175**
Link, M. Leanne *see* **Beard, J. T. B., Jr., 98j:11114**
Liu, Mulan (*with* Mullen, Gary L.) Irreducible polynomials and linear recurring arrays. (English summary) **98a:11176**
Manstavičius, Eugenijus *see* **Knopfmacher, Arnold, 98e:11139**
Matthews, Rex W. *see* **Cohen, Stephen D., 98f:11131**
Mullen, Gary L. Bases and the distribution of irreducible and primitive polynomials over finite fields. (English summary) **98c:11132**
— *see also* **Liu, Mulan, 98a:11176** *and* **Ham, Kie H., 98c:11131**
Mullin, Ronald C. *see* **Blake, Ian F.; et al., 98a:11171**
Park, Bongjoo (*with* Chang, Taejoo; Song, Iickho; Chang, Byung-Hwa) Two-dimensional sequences of primitive polynomials. (English summary) **98i:11105**
Park, Young Ho *see* **Lee, June Bok, 98i:11104**
Ramakrishnan, T. R. *see* **Sethumadhavan, M., 98b:11121**
Salillas, J. *see* **García-Roig, J.-L., 98m:11133**

Scheerhorn, A. Comment: "Construction of irreducible polynomials using cubic transformation" [Appl. Algebra Engrg. Comm. Comput. **7** (1996), no. 1, 15–19; MR 98i:11103a] by W. M. Chu. **98i:11103b**
Sethumadhavan, M. (*with* Ramakrishnan, T. R.) A remark on inversive maximal period polynomials over the finite field $\mathbf{F}_p$ where p is a prime. (English summary) **98b:11121**
Song, Iickho *see* **Park, Bongjoo; et al., 98i:11105**
Sun, Jung-Fung *see* **Liang, Joseph J., 98a:11175**
Sun, Qi A note on permutation polynomial vectors over $\mathbf{Z}/m\mathbf{Z}$. (Chinese. English and Chinese summaries) **98h:11157**
Vishne, Uzi Factorization of trinomials over Galois fields of characteristic 2. (English summary) **98i:11106**
Young, Paul Thomas Congruences for generalised Dickson polynomials. **98c:11133**
Zieve, M. *see* **Lenstra, H. W., Jr., 98a:11174**

Items with secondary classifications in 11T06

Elia, Michele Are fifth-degree equations over GF(5^m) solvable by radicals? (English summary) **98e:12002**
Guralnick, Robert M. (*with* Müller, Peter[1]) Exceptional polynomials of affine type. (English summary) **98i:12006**
Lindström, Bernt Finding finite B_2-sequences faster. (English summary) **98m:11012**
Mathiak, Karl Nullstellenzahlen von Polynomfunktionen auf Restklassenringen. (English summary) [Number of zeros of polynomial functions on residue class rings] **98h:11031**
Müller, Peter[1] A Weil-bound free proof of Schur's conjecture. (English summary) **98d:11143**
— *see also* **Guralnick, Robert M., 98i:12006**
Naudin, Patrice (*with* Quitté, Claude) Univariate polynomial factorization over finite fields. (English summary) **98j:68069**
Quitté, Claude *see* **Naudin, Patrice, 98j:68069**
Rónyai, Lajos (*with* Szántó, Ágnes) Prime-field-complete functions and factoring polynomials over finite fields. (English summary) **98e:68114**
Shparlinski, I. E. On irreducible polynomials of small height over finite fields. (English summary) **98f:11133**
Szántó, Ágnes *see* **Rónyai, Lajos, 98e:68114**
Takashima, Keizo On the number of multiples of certain primitive polynomials over GF(2). **98e:11093**
Troi, G. (*with* Zannier, Umberto) On a theorem of J. E. Olson and an application (vanishing sums in finite abelian p-groups). (English summary) **98j:20026**
Turnwald, Gerhard Reducibility of translates of Dickson polynomials. (English summary) **98f:12003**
Zannier, Umberto *see* **Troi, G., 98j:20026**

11T22 Cyclotomy

Stein, Greg Factoring cyclotomic polynomials over large finite fields. (English summary) **98b:11122**
Wildberger, Norman J. On the algebraic structure of Gaussian periods. (English summary) **98b:11123**

11T23 Exponential sums

Bao, Han Wen On two exponential sums and their applications. (English summary) **98d:11153**
Bassalygo, Leonid A. (*with* Zinov′ev, V. A.) Polynomials of a special form over a finite field with a maximum modulus of a trigonometric sum. (Russian) **98g:11138**
Kim, Dae San Gauss sums for general and special linear groups over a finite field. (English summary) **98g:11139**
Shirasaka, Shigeshi Finite analogue of Barnes' second lemma on the gamma function. (English summary) **98e:11140**
Zinov′ev, V. A. *see* **Bassalygo, Leonid A., 98g:11138**

Items with secondary classifications in 11T23

Kim, Dae San (*with* Park, Young Ho) Gauss sums for orthogonal groups over a finite field of characteristic two. **98j:11115**
— Gauss sums for $U(2n+1, q^2)$. (English summary) **98j:11116**
Koponen, Sami (*with* Lahtonen, Jyrki) On the aperiodic and odd correlations of the binary Shanbhag-Kumar-Helleseth sequences. (English summary) **98j:94036**
Lahtonen, Jyrki *see* **Koponen, Sami, 98j:94036**
Mao, Zhengyu Airy sums, Kloosterman sums, and Salié sums. (English summary) **98e:11098**
Park, Young Ho *see* **Kim, Dae San, 98j:11115**
Vlăduţ, Serge G. Two applications of Weil-Serre's explicit formula. (English summary) **98d:11100**

11T24 Other character sums and Gauss sums

Kim, Dae San (*with* Park, Young Ho) Gauss sums for orthogonal groups over a finite field of characteristic two. **98j:11115**
— Gauss sums for $U(2n+1, q^2)$. (English summary) **98j:11116**
Lee, In-Sok (*with* Park, Kyung-Hwan) Gauss sums for $G_2(q)$. **98g:11140**
Li, Wen-Ch'ing Winnie Estimates of character sums arising from finite upper half planes. (English summary) **98a:11177**
Ono, Ken Values of Gaussian hypergeometric series. (English summary) **98e:11141**
Park, Kyung-Hwan *see* **Lee, In-Sok, 98g:11140**
Park, Young Ho *see* **Kim, Dae San, 98j:11115**
Shimaura, Asako *see* **Washio, Tadashi; et al., 98a:11178**
Shiratani, Katsumi *see* **Washio, Tadashi; et al., 98a:11178**
Stepanov, S. A. On lower bounds on the character sums over finite fields. (Russian) **98b:11124**
— Character sums and coding theory. (English summary) **98b:11125**
— Character sums, algebraic curves and Goppa codes. **98m:11135**
Washio, Tadashi (*with* Shimaura, Asako; Shiratani, Katsumi) On certain congruences for Gauss sums. (English summary) **98a:11178**

Items with secondary classifications in 11T24

Aoki, Noboru On the purity problem of Gauss sums and Jacobi sums over finite fields. **98g:11097**
Caragiu, Mellita *see* **Caragiu, Mihai, 98f:11090**
Caragiu, Mihai (*with* Caragiu, Mellita) The $GL(n, \mathbf{F}_p)$-invariance of the Potts Hamiltonian. (English summary) **98f:11090**
Hensley, Douglas The distribution of reciprocal pairs modulo polynomials over a finite field. (English summary) **98a:11173**
Kim, Dae San Gauss sums for $O^-(2n, q)$. **98b:11087**
— Gauss sums for general and special linear groups over a finite field. (English summary) **98g:11139**
Langevin, Philippe Calculs de certaines sommes de Gauss. (French summary) [Computations of certain Gauss sums] **98a:11107**
Shiratani, Katsumi (*with* Yamada, Mieko) On rationality of Jacobi sums. **98c:11082**
Yamada, Mieko *see* **Shiratani, Katsumi, 98c:11082**

11T30 Structure theory

Blake, Ian F. *see* **Wang, Muzhong, 98c:11136**
Gao, Shuhong (*with* von zur Gathen, Joachim; Panario, Daniel) Gauss periods: orders and cryptographical applications. (English summary) **98c:11134**
von zur Gathen, Joachim *see* **Gao, Shuhong; et al., 98c:11134**
Geiselmann, Willi Weakly self-dual normal bases in finite fields. (English summary) **98m:11136**
Helleseth, Tor *see* **Kumar, P. Vijay, 98e:11142**
Kumar, P. Vijay (*with* Helleseth, Tor) An expansion for the coordinates of the trace function over Galois rings. (English summary) **98e:11142**
Kuroda, Mitsuru[2] A quadratic form $\mathrm{tr}(AX^2)$ and its application. (English summary) **98f:11132**
Lipatov, E. P. An asymptotic formula for irreducible trinomials divisible by a given irreducible polynomial. (Russian) **98h:11158**
Meletiou, Gerasimos C. Explicit form for the discrete logarithm over the field GF(p, k). (Romanian summary)
Meyn, H. An iterated normal presentation of GF(q^{2^m}). (English summary) **98c:11135**
Min, Cheong-Sick Optimal normal bases and low complexity normal bases of finite fields. (English summary) **98d:11154**
Morgan, Ilene H. (*with* Mullen, Gary L.; Živković, Miodrag) Almost weakly self-dual bases for finite fields. (English summary) **98i:11107**
Mullen, Gary L. *see* **Morgan, Ilene H.; et al., 98i:11107**
Panario, Daniel *see* **Gao, Shuhong; et al., 98c:11134**
Qi, Wen Feng (*with* Wang, Jin Ling) The structure of splitting rings over $\mathbf{Z}/(p^e)$. (Chinese. English and Chinese summaries) **98a:11179**
Revoy, Philippe The generalized level of a nonprime finite field is two.
Shparlinski, I. E. Approximate constructions in finite fields. **98k:11180**
Sun, Wei[4] (*with* Yang, Yi Xian) Correlation functions of a family of generalized geometric sequences. (English summary) **98k:11181**
Wang, Jin Ling *see* **Qi, Wen Feng, 98a:11179**
Wang, Muzhong (*with* Blake, Ian F.) Normal basis of the finite field $\mathbf{F}_{2^{(p-1)p^m}}$ over $\mathbf{F}_2$. (English summary) **98c:11136**
Yang, Yi Xian *see* **Sun, Wei[4], 98k:11181**
Živković, Miodrag *see* **Morgan, Ilene H.; et al., 98i:11107**

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Delpeyroux, E. *see* **Lacan, J., 98c:12001**
Lacan, J. (*with* Delpeyroux, E.) A note on normal bases. (English summary) **98c:12001**
Liu, Mulan (*with* Mullen, Gary L.) Irreducible polynomials and linear recurring arrays. (English summary) **98a:11176**
Mullen, Gary L. Bases and the distribution of irreducible and primitive polynomials over finite fields. (English summary) **98c:11132**
— *see also* **Liu, Mulan, 98a:11176**
Waterhouse, William C. On the ranks of skew centrosymmetric matrices over finite fields. (English summary) **98m:15028**

11T55 Arithmetic theory of polynomial rings over finite fields

Gao, Shuhong (*with* Panario, Daniel) Density of normal elements. (English summary) **98c:11137**
Panario, Daniel *see* **Gao, Shuhong, 98c:11137**
Shparlinski, I. E. On irreducible polynomials of small height over finite fields. (English summary) **98f:11133**

Items with secondary classifications in 11T55

Beard, J. T. B., Jr. (*with* Link, M. Leanne) Iterated sums of polynomial divisors. (English summary) **98j:11114**
Lange, Ehler Cellular automata, substitutions and factorization of polynomials over finite fields. **98e:11028**
Link, M. Leanne *see* **Beard, J. T. B., Jr., 98j:11114**
Sauerberg, Jim (*with* Shu, Linghsueh) Fermat quotients over function fields. (English summary) **98j:11111**
Shu, Linghsueh *see* **Sauerberg, Jim, 98j:11111**

11T71 Algebraic coding theory; cryptography

Chapman, Robin J. Higher power residue codes. (English summary) **98j:11117**
Chung, Habong *see* **No, Jong-Seon; et al., 98f:11134**
Dodunekov, Stefan M. (*with* Landgev, I.) On the quaternary [11, 6, 5] and [12, 6, 6] codes. **98c:11138**

Feng, Dengguo (*with* Pei, Dingyi) Judging of the orthogonal system over rings Z_N. **98a:11180**
Garg, H. Krishna Analysis of the Chinese remainder theorem and cyclotomic polynomials-based algorithms for cyclic convolution. I. Rational number system. (English summary) **98h:11159**
— (*with* Mendis, F. V. C.) Analysis of the Chinese remainder theorem and cyclotomic polynomials-based algorithms for cyclic convolution. II. Complex rational number system. (English summary) **98h:11160**
Hill, Raymond (*with* Landgev, I.) On the nonexistence of some quaternary codes. (English summary) **98c:11139**
Landgev, I. *see* **Dodunekov, Stefan M., 98c:11138** *and* **Hill, Raymond, 98c:11139**
Mendis, F. V. C. *see* **Garg, H. Krishna, 98h:11160**
No, Jong-Seon (*with* Yang, Kyeongcheol; Chung, Habong; Song, Hong-Yeop) New construction for families of binary sequences with optimal correlation properties. (English summary) **98f:11134**
Ozeki, Michio On the notion of Jacobi polynomials for codes. **98b:11126**
Pei, Dingyi *see* **Feng, Dengguo, 98a:11180**
Song, Hong-Yeop *see* **No, Jong-Seon; et al., 98f:11134**
Stein, Andreas Elliptic congruence function fields. (English summary) **98d:11155**
Yang, Kyeongcheol *see* **No, Jong-Seon; et al., 98f:11134**

Items with secondary classifications in 11T71

Arora, S. K. *see* **Pruthi, Manju, 98e:94041**
Berger, Thierry P. Automorphism groups and permutation groups of affine-invariant codes. (English summary) **98f:94022**
Blackburn, Simon R. A generalisation of the discrete Fourier transform. (English summary) **98b:94010**
Boguslavsky, M. On the number of solutions of polynomial systems. (English summary) **98m:11132**
Boneh, Dan (*with* Lipton, Richard J.) Quantum cryptanalysis of hidden linear functions (extended abstract). (English summary) **98a:94019**
Calderbank, A. R. (*with* Li, Wen-Ch'ing Winnie; Poonen, Bjorn) A 2-adic approach to the analysis of cyclic codes. (English summary) **98m:94049**
Charpin, Pascale Self-dual codes which are principal ideals of the group algebra $\mathbf{F}_2[\{\mathbf{F}_{2^m}, +\}]$. (English summary) **98b:94018**
Clarkson, I. Vaughan L. (*with* Perkins, Jane E.; Mareels, Iven M. Y.) Errata in: "Number/theoretic solutions to intercept time problems" [IEEE Trans. Inform. Theory **42** (1996), no. 3, 959–971; MR 97k:94007]. (English summary)
Cohen, Gérard Denis (*with* Litsyn, Simon N.; Lobstein, A. C.; Mattson, H. F., Jr.) Covering radius 1985–1994. (English summary) **98d:94047**
Couveignes, Jean-Marc Computing l-isogenies using the p-torsion. (English summary) **98j:11046**
Demazure, Michel ★ Cours d'algèbre. (French. French summary) [Course of algebra] **98j:11119**
Denny, Thomas F. *see* **Schirokauer, Oliver; et al., 98i:11109**
Ding, Cun Sheng (*with* Pei, Dingyi; Salomaa, Arto) ★ Chinese remainder theorem. **98d:94001**
Fields, Joe *see* **Piess, Vera S.; et al., 98a:94039**
Gao, Shuhong (*with* von zur Gathen, Joachim; Panario, Daniel) Gauss periods: orders and cryptographical applications. (English summary) **98c:11134**
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Habsieger, Laurent A new lower bound for the football pool problem for 7 matches. (English and French summaries) **98b:94025**
Harada, Masaaki (*with* Kimura, Hiroshi[1]) On extremal self-dual codes. **98b:94019**
Huber, Klaus Codes over tori. (English summary) **98b:94022**
Ivorgov, V. (*with* Zyapkov, N.) Doubly even self-dual [40, 20, 8]-codes with an automorphism of odd order. (Russian. Russian summary) **98b:94020**
Jain, Surender Kumar An application of finite fields and number theory to cryptography. (*see* **98b:00017**)
Kimura, Hiroshi[1] *see* **Harada, Masaaki, 98b:94019**
Kreuzer, Martin (*with* Waldi, Rolf) On the Castelnuovo-Mumford regularity of a projective system. **98e:13016**
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11Yxx Computational number theory [see also 11–04]

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Cardon, David A. A Euclidean ring containing $\mathbf{Z}[\sqrt{14}]$. (English and French summaries) **98g:11121**
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— (*with* Zassenhaus, H.) ★ Algorithmic algebraic number theory. (English summary) **98f:11111**
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Schörnig, M. *see* **Pohst, Michael E., 98c:11125**
Stark, H. M. *see* **Gethner, Ellen, 98m:11111**
Stevenhagen, Peter *see* **Bosma, Wieb, 98e:11129a** *and* **Errata: "On the computation of quadratic 2-class groups", 98e:11129b**
Sumida, Hiroki *see* **Ichimura, Humio, 98j:11092**
Trojovský, P. *see* **Jakubec, Stanislav, 98j:11095**
Weber, Damian *see* **Schirokauer, Oliver; et al., 98i:11109**
Yoshino, Ken-ichi A criterion for the parity of the class number of an abelian field with prime power conductor. **98d:11133**
Zassenhaus, H. *see* **Pohst, Michael E., 98f:11111**

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Errata:
"On the computation of quadratic 2-class groups" Erratum: "On the computation of quadratic 2-class groups" [J. Théor. Nombres Bordeaux **8** (1996), no. 2, 283–313; MR 98e:11129a] by W. Bosma and P. Stevenhagen. (French) **98e:11129b**

11Y50 Computer solution of Diophantine equations

Filgueiras, Miguel *see* **Tomás, Ana Paula, 98j:11124**
Gebel, J. (*with* Pethő, Attila; Zimmer, Horst Günter) Computing integral points on Mordell's elliptic curves. (English summary) **98g:11146**
Kedlaya, Kiran S. Solving constrained Pell equations. (English summary) **98g:11147**
Pethő, Attila *see* **Gebel, J.; et al., 98g:11146**
Smart, N. P. How difficult is it to solve a Thue equation? (English summary) **98d:11164**
Tomás, Ana Paula (*with* Filgueiras, Miguel) Solving linear Diophantine equations using the geometric structure of the solution space. (English summary) **98j:11124**
Zimmer, Horst Günter *see* **Gebel, J.; et al., 98g:11146**

Items with secondary classifications in 11Y50

Ajili, Farid (*with* Contejean, Evelyne) Complete solving of linear Diophantine equations and inequations without adding variables. (English summary) **98h:68122**
— (*with* Contejean, Evelyne) Avoiding slack variables in the solving of linear Diophantine equations and inequations. (English summary) **98c:68033**
Bennett, Michael A. (*with* de Weger, Benjamin M. M.) On the Diophantine equation $|ax^n - by^n| = 1$. (English summary) **98c:11024**
Bremner, Andrew (*with* Guy, Richard K.) Two more representation problems. (English summary) **98d:11037**
Contejean, Evelyne *see* **Ajili, Farid, 98c:68033** *and* **98h:68122**
Domenjoud, Eric (*with* Tomás, Ana Paula) From Elliott-MacMahon to an algorithm for general linear constraints on naturals. (English summary) (*see* **98d:68021**)
Dreier, Roland Examples of genus 2 curves over **Q** with Jacobians of high Mordell-Weil rank. **98k:11083**
Eki, Randy L. New results in equal sums of like powers. (English summary) **98m:11023**
Guy, Richard K. *see* **Bremner, Andrew, 98d:11037**
Heath-Brown, D. R. Searching for solutions of $x^3 + y^3 + z^3 = k$. **98f:11025**
Maltby, Roy Pure product polynomials and the Prouhet-Tarry-Escott problem. (English summary) **98e:11026**
Niklasch, Gerhard (*with* Smart, N. P.) Exceptional units in a family of quartic number fields. (English summary) **98g:11125**
Pethő, Attila (*with* Weis, Thomas; Zimmer, Horst Günter) Torsion groups of elliptic curves with integral j-invariant over general cubic number fields. (English summary) **98e:11069**
Pintér, Ákos (*with* de Weger, Benjamin M. M.) $210 = 14 \times 15 = 5 \times 6 \times 7 = \binom{21}{2} = \binom{10}{4}$. (English summary) **98k:11032**
Smart, N. P. S-unit equations, binary forms and curves of genus 2. **98d:11072**
— *see also* **Niklasch, Gerhard, 98g:11125**
Tomás, Ana Paula *see* **Domenjoud, Eric, (98d:68021)**
de Weger, Benjamin M. M. *see* **Bennett, Michael A., 98c:11024** *and* **Pintér, Ákos, 98k:11032**
Weis, Thomas *see* **Pethő, Attila; et al., 98e:11069**
Zimmer, Horst Günter *see* **Pethő, Attila; et al., 98e:11069**

11Y55 Calculation of integer sequences

Chebrakov, Y. V. (*with* Shmagin, V. V.) The analytical formulae yielding some Smaran-

dache numbers and applications in magic squares theory. (English summary)
— *see also* **Yasinskiy, S. A.; et al.**
Huen, Y. K. The twin prime problem revisited. (English summary) **98m:11139**
Lindström, Bernt An Erdős problem studied with the assistance of a computer. (Swedish. English summary) **98m:11140**
Madić, Jovan *see* **Stanković, Miomir S.; et al., 98m:11141**
Shmagin, V. V. *see* **Chebrakov, Y. V.** *and* **Yasinskiy, S. A.; et al.**
Stanimirović, Predrag S. *see* **Stanković, Miomir S.; et al., 98m:11141**
Stanković, Miomir S. (*with* Madić, Jovan; Stanimirović, Predrag S.) Addition, subtraction and multiplication of sequences of fractions by means of residue arithmetic and mathematical spectra. (English summary) **98m:11141**
Yasinskiy, S. A. (*with* Shmagin, V. V.; Chebrakov, Y. V.) The system-graphical analysis of some numerical Smarandache sequences. (English summary)

Items with secondary classifications in 11Y55

Cohen, Graeme L. (*with* te Riele, Herman J. J.) Errata to: "Iterating the sum-of-divisors function" [Experiment. Math. **5** (1996), no. 2, 91–100; MR 97m:11007]. **Guillaume, D.** (*with* Morain, F.) Building pseudoprimes with a large number of prime factors. (English summary) **98d:11011**
Lindström, Bernt Finding finite B_2-sequences faster. (English summary) **98m:11012**
Morain, F. *see* **Guillaume, D., 98d:11011**
te Riele, Herman J. J. *see* **Cohen, Graeme L.**

11Y60 Evaluation of constants

Adamchik, V. S. (*with* Wagon, Stan) A simple formula for π. **98h:11166**
Almkvist, Gert Many correct digits of π, revisited. **98a:11189**
Bach, Eric The complexity of number-theoretic constants. (English summary) **98g:11148**
Bailey, David H. (*with* Plouffe, Simon) Recognizing numerical constants. (English summary) **98i:11111**
— (*with* Borwein, Jonathan M.; Borwein, P. B.) Ramanujan, modular equations, and approximations to pi or How to compute one billion digits of pi [MR 90d:11143]. (*see* **98f:00027**)
— (*with* Borwein, P. B.; Plouffe, Simon) On the rapid computation of various polylogarithmic constants. (English summary) **98d:11165**
Borwein, Jonathan M. (*with* Bradley, David) Empirically determined Apéry-like formulae for $\zeta(4n+3)$. (English summary) **98m:11142**
— *see also* **Bailey, David H.; et al., (98f:00027)**
Borwein, P. B. *see* **Bailey, David H.; et al., 98d:11165** *and* **(98f:00027)**
Bradley, David *see* **Borwein, Jonathan M., 98m:11142**
Karatsuba, E. A. On the fast calculation of the Riemann zeta function for integer argument. (Russian) **98a:11190**
van Leijenhorst, D. C. Algorithms for the approximation of π. (English summary) **98b:11130**
Moree, Pieter A special value of Dickman's function. (English summary)
Plouffe, Simon *see* **Bailey, David H.; et al., 98d:11165** *and* **98i:11111**
Wagon, Stan *see* **Adamchik, V. S., 98h:11166**

Items with secondary classifications in 11Y60

Askey, Richard A. Variants of Clausen's formula for the square of a special ${}_2F_1$. **98f:33003**
Borwein, Jonathan M. (*with* Garvan, F. G.) Approximations to π via the Dedekind eta function. **98j:11030**
— (*with* Bradley, David; Broadhurst, D. J.) Evaluations of k-fold Euler/Zagier sums: a compendium of results for arbitrary k. (English summary) **98b:11091**
Bradley, David *see* **Borwein, Jonathan M.; et al., 98b:11091**
Bradley, W. F. (*with* Sukhov, Yu. M.) The entropy of famous reals: some empirical results. (English summary) **98m:94016**
Broadhurst, D. J. *see* **Borwein, Jonathan M.; et al., 98b:11091**
Choi, Junesang (*with* Seo, Tae Young) Evaluation of some infinite series. (English summary) **98k:33027**
— (*with* Nash, Charles) Integral representations of the Kinkelin's constant A. (English summary) **98j:33002**
Chu, Wen Chang Hypergeometric series and the Riemann zeta function. **98m:11089**
Crandall, Richard E. Fast evaluation of multiple zeta sums. (English summary) **98j:11066**
Dmitrieva, O. M. (*with* Malozëmov, V. N.) On a fast algorithm based on arithmetic-geometric means. (Russian. Russian summary) **98h:65005**
Garrido, Luis Approximations of the constant π. (Spanish. English and Spanish summaries)
Garvan, F. G. *see* **Borwein, Jonathan M., 98j:11030**
Gosper, R. Wm., Jr. $\int_{\pi/4}^{m/6} \ln \Gamma(z)dz$. (English summary) **98m:33004**
Hauss, Michael An Euler-Maclaurin-type formula involving conjugate Bernoulli polynomials and an application to $\zeta(2m+1)$. (English summary) **98b:11019**
Kölbig, K. S. The polygamma function $\psi^{(k)}(x)$ for $x=\frac{1}{4}$ and $x=\frac{3}{4}$. (English summary) **98d:33001**
Malozëmov, V. N. *see* **Dmitrieva, O. M., 98h:65005**
Nash, Charles *see* **Choi, Junesang, 98j:33002**
Nesterenko, Yu. V. Some remarks on $\zeta(3)$. (Russian. Russian summary) **98b:11088**
Ramanathan, K. G. On some theorems stated by Ramanujan. **98g:33027**
Seo, Tae Young *see* **Choi, Junesang, 98k:33027**
Sukhov, Yu. M. *see* **Bradley, W. F., 98m:94016**

11Y65 Continued fraction calculations

Brent, Richard P. (*with* van der Poorten, Alfred J.; te Riele, Herman J. J.) A comparative study of algorithms for computing continued fractions of algebraic numbers. **98c:11144**
van der Poorten, Alfred J. *see* **Brent, Richard P.; et al., 98c:11144**
te Riele, Herman J. J. *see* **Brent, Richard P.; et al., 98c:11144**

Items with secondary classifications in 11Y65

Cvijović, Djurdje (*with* Klinowski, Jacek) Continued-fraction expansions for the Riemann zeta function and polylogarithms. (English summary) **98a:11111**
Flajolet, Philippe (*with* Vallée, Brigitte) Continued fraction algorithms, functional operators, and structure constants. (English summary) **98j:11061**
Klinowski, Jacek *see* **Cvijović, Djurdje, 98a:11111**
Stambul, Pierre A generalization of Perron's theorem about Hurwitzian numbers. **98h:11013**
Thakur, Dinesh S. Patterns of continued fractions for the analogues of e and related numbers in the function field case. (English summary) **98d:11145**
Vallée, Brigitte Opérateurs de Ruelle-Mayer généralisés et analyse en moyenne des algorithmes d'Euclide et de Gauss. [Generalized Ruelle-Mayer operators and average case analysis of the Euclidean and Gaussian algorithms] **98g:11091**
— *see also* **Flajolet, Philippe, 98j:11061**
Zuccherato, Robert J. The continued fraction algorithm and regulator for quadratic function fields of characteristic 2. (English summary) **98a:11156**

11Y70 Values of arithmetic functions; tables

Iseki, Kiyoshi (*with* Yamashita, Koji) On a problem of Domosi. (Japanese) (*see* **98d:00023**)
Lioen, Walter M. (*with* van de Lune, Jan) Systematic computations on Mertens' conjecture and Dirichlet's divisor problem by vectorized sieving. (English summary) **98j:11125**
Lukes, Richard F. (*with* Scheidler, Renate; Williams, Hugh Cowie) Further tabulation of the Erdős-Selfridge function. (English summary) **98a:11191**
van de Lune, Jan *see* **Lioen, Walter M., 98j:11125**
Scheidler, Renate *see* **Lukes, Richard F.; et al., 98a:11191**
Williams, Hugh Cowie *see* **Lukes, Richard F.; et al., 98a:11191**
Yamashita, Koji *see* **Iseki, Kiyoshi, (98d:00023)**

Items with secondary classifications in 11Y70

Bach, Eric (*with* Peralta, René) Asymptotic semismoothness probabilities. (English summary) **98a:11123**
Cohen, Graeme L. (*with* te Riele, Herman J. J.) On φ-amicable pairs. (English summary) **98d:11009**
— *see also* **Hagis, Peter, Jr., 98k:11002**
Hagis, Peter, Jr. (*with* Cohen, Graeme L.) Every odd perfect number has a prime factor which exceeds 10^6. (English summary) **98k:11002**
Ibstedt, Henry ★ Surfing on the ocean of numbers. (English summary) **98f:11001**
Peralta, René *see* **Bach, Eric, 98a:11123**
Rémy, Jean-Luc Sur la suite autodécrite de Golomb. (French summary) [On Golomb's self-describing sequence] **98i:11077**
te Riele, Herman J. J. *see* **Cohen, Graeme L., 98d:11009**

11Y99 None of the above, but in this section

Chudnovsky, D. V. (*with* Chudnovsky, G. V.) Diophantine approximation problem arising from VLSI design. **98d:11166**
Chudnovsky, G. V. *see* **Chudnovsky, D. V., 98d:11166**

Items with secondary classifications in 11Y99

Bordakov, E. V. *see* **Repnikov, V. D.; et al., 98b:35023**
Boyd, David W. On a problem of Byrnes concerning polynomials with restricted coefficients. (English summary) **98a:11033**
Fermigier, Stéfane Étude expérimentale du rang de familles de courbes elliptiques sur **Q**. (English and French summaries) [Experimental study of the rank of families of elliptic curves over **Q**] **98g:11061**
Hoang Ngoc Minh, V. Summations of polylogarithms via evaluation transform. (English summary) **98h:33012**
Khukhryanskiĭ, Yu. P. *see* **Repnikov, V. D.; et al., 98b:35023**
Repnikov, V. D. (*with* Khukhryanskiĭ, Yu. P.; Bordakov, E. V.) On some function series containing roots of a transcendental equation. (Russian. Russian summary) **98b:35023**

11Z05 Miscellaneous applications of number theory

Berry, M. V. Quantum and optical arithmetic and fractals. (English summary) **98m:11143**
Bhaduri, R. K. (*with* Khare, Avinash; Reimann, S. M.; Tomusiak, E. L.) The Riemann zeta function and the inverted harmonic oscillator. (English summary) **98b:11131**
Huang, Hsin Yi (*with* Wu, F. Y.) The infinite-state Potts model and solid partitions of an integer. (English summary) **98c:11145**
Khare, Avinash *see* **Bhaduri, R. K.; et al., 98b:11131**
Lanford, O. E., III (*with* Ruedin, L.) Statistical mechanical methods and continued fractions. (English summary) **98b:11132**
Reimann, S. M. *see* **Bhaduri, R. K.; et al., 98b:11131**
Ruedin, L. *see* **Lanford, O. E., III, 98b:11132**
Tomusiak, E. L. *see* **Bhaduri, R. K.; et al., 98b:11131**
Vladimirov, V. S. Some applications of p-adic numbers in mathematical physics. (English summary) **98h:11167**
Wu, F. Y. *see* **Huang, Hsin Yi, 98c:11145**

Items with secondary classifications in 11Z05

Albeverio, Sergio (*with* Cianci, Roberto; Khrennikov, Andrei) On the spectrum of the p-adic position operator. (English summary) **98g:81027**
— (*with* Cianci, Roberto; Khrennikov, Andrei) On the Fourier transform and the spectral properties of the p-adic momentum and Schrödinger operators. (English summary) **98j:81054**
Athanasiu, G. G. (*with* Floratos, E. G.; Nicolis, S.) Holomorphic quantization on the torus and finite quantum mechanics. (English summary) **98c:81104**

Baker, T. H. (*with* Forrester, Peter J.) Finite-N fluctuation formulas for random matrices. (English summary) **98m:82029**
Bauer, Michel Galois actions for genus one rational conformal field theories. (English summary) **98k:81246**
— (*with* Coste, Antoine; Itzykson, Claude; Ruelle, P.) Comments on the links between su(3) modular invariants, simple factors in the Jacobian of Fermat curves, and rational triangular billiards. (English summary) **98g:81189**
Bonelli, Antonio (*with* Ruffo, Stefano) Exchanges of "quanta" among distinguishable and indistinguishable objects. (English summary) **98i:11086**
Borwein, David (*with* Borwein, Jonathan M.; Pinner, Christopher G.) Convergence of Madelung-like lattice sums. (English summary) **98k:11135**
Borwein, Jonathan M. *see* **Borwein, David; et al., 98k:11135**
Broadhurst, D. J. (*with* Kreimer, D.) Association of multiple zeta values with positive knots via Feynman diagrams up to 9 loops. (English summary) **98g:11101**
Bytsenko, Andrei A. (*with* Cognola, Guido; Zerbini, Sergio) Quantum fields in hyperbolic spacetimes with finite spatial volume. (English summary) **98e:81118**
Caragiu, Mellita *see* **Caragiu, Mihai, 98f:11090**
Caragiu, Mihai (*with* Caragiu, Mellita) The GL$(n, \mathbf{F}_p)$-invariance of the Potts Hamiltonian. (English summary) **98f:11090**
Cardoso, Gabriel Lopes *see* **de Wit, Bernard; et al., 98d:81096**
Chamizo, Fernando (*with* Córdoba, Antonio) One-dimensional crystals and quadratic residues. (English summary) **98f:11085**
Chekhov, L. O. Scattering on univalent graphs from L-function viewpoint. (English and Russian summaries) **98j:11065**
Cianci, Roberto *see* **Albeverio, Sergio; et al., 98g:81027** *and* **98j:81054**
Cognola, Guido *see* **Bytsenko, Andrei A.; et al., 98e:81118**
Contucci, Pierluigi (*with* Knauf, Andreas) The low activity phase of some Dirichlet series. (English summary) **98a:11118**
— (*with* Knauf, Andreas) The phase transition of the number-theoretical spin chain. (English summary) **98j:82011**
Córdoba, Antonio *see* **Chamizo, Fernando, 98f:11085**
Coste, Antoine *see* **Bauer, Michel; et al., 98g:81189**
Dahlqvist, Per The role of singularities in chaotic spectroscopy. (English summary) **98j:81093**
Delves, R. T. (*with* Joyce, G. S.; Zucker, I. J.) Exact results in the theory of intermediate statistics. (English summary) **98d:82002**
De Smedt, Stany (*with* Khrennikov, Andrei) Dynamical systems and theory of numbers. (English summary) **98g:58161**
Đorđević, Goran S. (*with* Dragović, Branko G.) On p-adic functional integration. (English summary) **98e:81095**
— (*with* Dragović, Branko G.) p-adic path integrals for quadratic actions. (English summary) **98g:81109**
Dragović, Branko G. *see* **Đorđević, Goran S., 98e:81095** *and* **98g:81109**
Duru, I. H. Quantum mechanical problems with q-deformations and over the p-adic number fields. **98g:81095**
Floratos, E. G. *see* **Athanasiu, G. G.; et al., 98c:81104**
Forrester, Peter J. *see* **Baker, T. H., 98m:82029**
Georgelin, Yvon (*with* Masson, Thierry; Wallet, Jean-Christophe) Modular groups, visibility diagram and quantum Hall effect. (English summary) **98j:81383**
Greenman, Chris Fractal properties of spacing distributions. (English summary) **98g:11093**
— Is the level spacing distribution of the infinite-dimensional harmonic oscillator that of a Poisson process? (English summary) **98g:11094**
Ishiwata, Shingo (*with* Matsutani, Shigeki; Ōnishi, Yoshihiro) Localization state of hard core chain and cyclotomic polynomial: hard core limit of diatomic Toda lattice. (English summary) **98g:82010**
Itzykson, Claude *see* **Bauer, Michel; et al., 98g:81189**
Joyce, G. S. *see* **Delves, R. T.; et al., 98d:82002**
Khrennikov, Andrei p-adic stochastics with applications to the Einstein-Podolsky-Rosen paradox. (English summary) **98e:81023**
— p-adic description of chaos. (English summary) **98f:82003**
— p-adic stochastic hidden variable model. (English summary) **98m:81010**
— *see also* **De Smedt, Stany, 98g:58161**; **Albeverio, Sergio; et al., 98g:81027** *and* **98j:81054**
Knauf, Andreas *see* **Contucci, Pierluigi, 98a:11118** *and* **98j:82011**
Kozyrev, S. V. A non-Archimedean state space in a model of polymerization. (Russian. English and Russian summaries) **98m:82079**
Kreimer, D. *see* **Broadhurst, D. J., 98g:11101**
Lee, M. Howard Polylogarithms and Riemann's ζ function. (English summary) **98m:11092**
Lüst, Dieter *see* **de Wit, Bernard; et al., 98d:81096**
Masbaum, G. (*with* Roberts, Justin Deritter) A simple proof of integrality of quantum invariants at prime roots of unity. (English summary) **98h:57037**
Masson, Thierry *see* **Georgelin, Yvon; et al., 98j:81383**
Matsutani, Shigeki *see* **Ishiwata, Shingo; et al., 98g:82010**
Missarov, M. D. p-adic φ^4-theory as a functional equation problem. (English summary) **98b:81149**
Mohaupt, Thomas *see* **de Wit, Bernard; et al., 98d:81096**
Mohri, Kenji Residues and topological Yang-Mills theory in two dimensions. (English summary) **98h:32037**
Nicolis, S. *see* **Athanasiu, G. G.; et al., 98c:81104**
Ōnishi, Yoshihiro *see* **Ishiwata, Shingo; et al., 98g:82010**
Pinner, Christopher G. *see* **Borwein, David; et al., 98k:11135**
Rey, Soo-Jong *see* **de Wit, Bernard; et al., 98d:81096**
Roberts, Justin Deritter *see* **Masbaum, G., 98h:57037**
Ruelle, P. *see* **Bauer, Michel; et al., 98g:81189**
Ruffo, Stefano *see* **Bonelli, Antonio, 98i:11086**
Shakhverdyan, A. Yu. Lattice animals and self-organized criticality. (English summary) **98i:82027**
Takata, Toshie On quantum PSU(n)-invariants for lens spaces. **98k:57037**
Varadarajan, V. S. Path integrals for a class of p-adic Schrödinger equations. (English summary) **98m:81083**
Wallet, Jean-Christophe *see* **Georgelin, Yvon; et al., 98j:81383**
Williams, Floyd L. Topological Casimir energy for a general class of Clifford-Klein space-times. (English summary) **98d:58196**
de Wit, Bernard (*with* Cardoso, Gabriel Lopes; Lüst, Dieter; Mohaupt, Thomas; Rey, Soo-Jong) Higher-order gravitational couplings and modular forms in $N = 2$, $D = 4$ heterotic string compactifications. (English summary) **98d:81096**
Wu, F. Y. The infinite-state Potts model and restricted multidimensional partitions of an integer. (English summary) **98i:82020**
Yang, Jae-Hyun Supplementary note on the Freund-Witten adelic formula for Veneziano amplitudes. **98b:81218**
Zerbini, Sergio *see* **Bytsenko, Andrei A.; et al., 98e:81118**
Zhu, Yaochen On interpolation of a certain class of functions. (English summary) **98m:41033**
Zucker, I. J. *see* **Delves, R. T.; et al., 98d:82002**

12–XX Field theory and polynomials

12–01 Instructional exposition (textbooks, tutorial papers, etc.)

Fenrick, Maureen H. ★ Introduction to the Galois correspondence. (English summary) **98g:12001**

Items with secondary classifications in 12–01

Bories-Longuet, Francette (*with* Jarraud, Pierre; Lévy-Bruhl, Anne) ★ Algèbre et géométrie. (French. French summary) [Algebra and geometry]
Escofier, Jean-Pierre ★ Théorie de Galois. (French. French summary) [Galois theory] **98j:12003**
Jarraud, Pierre *see* **Bories-Longuet, Francette; et al.**
Lévy-Bruhl, Anne *see* **Bories-Longuet, Francette; et al.**

12–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 12–03

(Breger, Herbert) *see* **Leibniz, Gottfried Wilhelm, 98d:01043**
(Brioschi, Francesco[1]) *see* **Zappa, Guido, 98k:01012**
(Contro, Walter S.) *see* **Leibniz, Gottfried Wilhelm, 98d:01043**
(Gädeke, Nora) *see* **Leibniz, Gottfried Wilhelm, 98d:01043**
(Knobloch, Eberhard) *see* **Leibniz, Gottfried Wilhelm, 98d:01043**
Leibniz, Gottfried Wilhelm ★ Sämtliche Schriften und Briefe. Reihe VII. (German) [Collected works and letters. Series VII] **98d:01043**
Neumann, Olaf Die Entwicklung der Galois-Theorie zwischen Arithmetik und Topologie (1850 bis 1960). (German summary) [The development of Galois theory between arithmetic and topology (1850–1960)] **98k:01010**
Qu, An Jing Formulas for square roots and inverse functions in ancient China. (Chinese. English and Chinese summaries) **98m:01001**
Zappa, Guido History of the solution of fifth- and sixth-degree equations, with an emphasis on the contributions of Francesco Brioschi. (Italian. Italian summary) **98k:01012**

Items listed otherwise than by author

Collected Works:
Leibniz, Gottfried Wilhelm *see* **Leibniz, Gottfried Wilhelm, 98d:01043**

12–04 Explicit machine computation and programs (not the theory of computation or programming)

Colin, Antoine Formal computation of Galois groups with relative resolvents. (English summary) **98e:12001**

12–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 12–06

(Arslanov, Marat) *see* **Algebra and analysis, 98b:00020**
(Chebotarev, N. G.) *see* **Algebra and analysis, 98b:00020**
(Parshin, A. N.) *see* **Algebra and analysis, 98b:00020**
(Shafarevich, Igor' Rostislavovich) *see* **Algebra and analysis, 98b:00020**

Items listed otherwise than by author

Algebra and analysis ★ Algebra and analysis. **98b:00020**
Anniversary:
Birth of Chebotarëv, Nikolaĭ Grigor'evich ★ Algebra and analysis. **98b:00020**
Conference:
Algebra and Analysis ★ Algebra and analysis. **98b:00020**
Kazan ★ Algebra and analysis. **98b:00020**

12Dxx Real and complex fields

12D05 Polynomials: factorization

Ivanova, S. L. (*with* Tarakanovskiĭ, L. F.) Some properties of polynomials and the determination of roots by parts. (Russian)
Moussa, Ousmane An inequality about the largest roots of a polynomial. (English summary) **98g:12002**
Tarakanovskiĭ, L. F. *see* **Ivanova, S. L.**
Yang, Hai Zhong Factoring integral polynomials. (Chinese. English and Chinese summaries) **98f:12001**

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Filaseta, Michael (*with* Solan, Ikhalfani) Norms of factors of polynomials. **98k:11022**
Goodman, Tim N. T. (*with* Micchelli, Charles A.; Rodriguez, Giuseppe; Seatzu, Sebastiano) Spectral factorization of Laurent polynomials. (English summary) **98e:65117**
Jouanolou, J. P. Formes d'inertie et résultant: un formulaire. [Inertial forms and resultant: some formulas] **98k:14002**
Micchelli, Charles A. *see* **Goodman, Tim N. T.; et al., 98e:65117**
Rodriguez, Giuseppe *see* **Goodman, Tim N. T.; et al., 98e:65117**
Seatzu, Sebastiano *see* **Goodman, Tim N. T.; et al., 98e:65117**
Solan, Ikhalfani *see* **Filaseta, Michael, 98k:11022**

12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15.}

Bajunid, I. (*with* Jamjoom, F. B. H.; Zaheer, N.) A generalization of Walsh's two-circle theorem to vector spaces. **98d:12001**
Jamjoom, F. B. H. *see* **Bajunid, I.; et al., 98d:12001**
Lin, Liang (*with* Liu, Yi Rong) Number of zero point [points] for a polynomial in [the] real field.
— (*with* Liu, Yi Rong) A new criterion for the number of real zeros of a polynomial. (Chinese)
Liu, Yi Rong *see* **Lin, Liang**
Yi, Zhen Yu The problem of repeated roots of polynomials of degree n in one variable. (Chinese. English and Chinese summaries)
Zaheer, N. *see* **Bajunid, I.; et al., 98d:12001**

Items with secondary classifications in 12D10

Amoroso, Francesco (*with* Mignotte, Maurice) On the distribution of the roots of polynomials. (English and French summaries) **98h:11101**
Boyd, David W. On a problem of Byrnes concerning polynomials with restricted coefficients. (English summary) **98a:11033**
Fuhrmann, Paul A. ★ A polynomial approach to linear algebra. **98a:15001**
Mignotte, Maurice *see* **Amoroso, Francesco, 98h:11101**
Peretz, Ronen (*with* Schmid, Joachim) On the zero sets of certain complex polynomials. **98i:30002**
Ruscheweyh, Stephan (*with* Salinas Carrasco, Luis) On an arc-length problem for polynomials on the Cauchy circle. **98h:30008**
Salinas Carrasco, Luis *see* **Ruscheweyh, Stephan, 98h:30008**
Schmid, Joachim *see* **Peretz, Ronen, 98i:30002**

12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [see also 11Exx]

Kalhoff, Franz B. On formally real division algebras and quasifields of finite rank. (English summary) **98i:12001**

Items with secondary classifications in 12D15

Burési, Jérôme (*with* Mahé, Louis) Reducing inequalities with bounds. **98j:14073**
Delon, Françoise (*with* Farré, Rafel) Some model theory for almost real closed fields. (English summary) **98k:03084**
Ehrlich, Philip From completeness to Archimedean completeness. An essay in the foundations of Euclidean geometry. **98f:51003**
Farré, Rafel *see* **Delon, Françoise, 98k:03084**
González-Vega, Laureano (*with* Lombardi, Henri) Smooth parametrizations for several cases of the Positivstellensatz. **98d:14072**
Jaworski, Piotr On Witt rings of function fields of real analytic surfaces and curves. (English summary) **98m:14053**
Lombardi, Henri *see* **González-Vega, Laureano, 98d:14072**
Mahé, Louis *see* **Burési, Jérôme, 98j:14073**
Marshall, Murray A. ★ Spaces of orderings and abstract real spectra. **98b:14041**
Monnier, Jean-Philippe About the image of the total signature map in the two-dimensional case. **98k:14078**
Movahhedi, A. (*with* Salinier, Alain) Une caractérisation des corps satisfaisant le théorème de l'axe principal. (English and French summaries) [A characterization of fields satisfying the principal axis theorem] **98f:11030**
de la Puente, M. J. Specializations and a local homeomorphism theorem for real Riemann surfaces of rings. (English summary) **98b:14044**
Salinier, Alain *see* **Movahhedi, A., 98f:11030**

12D99 None of the above, but in this section

Items with secondary classifications in 12D99

Dai, Zhi Zhong *see* **Zeng, Guang Xing, 98i:13042**
Zeng, Guang Xing (*with* Dai, Zhi Zhong) Real Hilbert rings. (Chinese. English and Chinese summaries) **98i:13042**

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

Binder, Franz Characterization of polynomial prime bidecompositions: a simplified proof. (English summary) **98h:12001**
Khanduja, Sudesh K. (*with* Saha, Jayanti) On a generalization of Eisenstein's irreducibility criterion. (English summary) **98f:12002**
Saha, Jayanti *see* **Khanduja, Sudesh K., 98f:12002**

Items with secondary classifications in 12E05

Buhler, Joe (*with* Reichstein, Zinovy) On the essential dimension of a finite group. (English summary) **98e:12004**
Dearden, Bruce (*with* Metzger, Jerry) Roots of polynomials modulo prime powers. (English summary) **98d:11027**
Dixon, John D. Polynomials with nontrivial relations between their roots. **98j:12004**
Dvornicich, R. Independence of values of algebraic functions. (English summary) **98c:12002**
Ferguson, Ronald Irreducible polynomials with many roots of equal modulus. **98f:11114**
Metzger, Jerry *see* **Dearden, Bruce, 98d:11027**
Möller, Peter[1] Kronecker conjugacy of polynomials. (English summary) **98h:11032**
Qazi, M. A. (*with* Rahman, Qazi I.) The fundamental theorem of linear programming applied to certain extremal problems for polynomials. (English summary) **98j:41032**

Rahman, Qazi I. *see* **Qazi, M. A., 98j:41032**
Reichstein, Zinovy *see* **Buhler, Joe, 98e:12004**

12E10 Special polynomials

Eigenthaler, Günther (*with* Woracek, Harald) Permutable polynomials and related topics. **98j:12001**
Elia, Michele Are fifth-degree equations over GF(5^m) solvable by radicals? (English summary) **98e:12002**
Guralnick, Robert M. (*with* Wan, Daqing) Bounds for fixed point free elements in a transitive group and applications to curves over finite fields. (English summary) **98j:12002**
Ronkin, A. L. On quasipolynomials. (Russian) (*see* **98d:00009**)
Spearman, Blair K. (*with* Spearman, Laura Y.; Williams, Kenneth S.) The subfields of the splitting field of a solvable quintic trinomial $X^5 + aX + b$.
Spearman, Laura Y. *see* **Spearman, Blair K.; et al.**
Turnwald, Gerhard Reducibility of translates of Dickson polynomials. (English summary) **98f:12003**
Wan, Daqing *see* **Guralnick, Robert M., 98j:12002**
Williams, Kenneth S. *see* **Spearman, Blair K.; et al.**
Woracek, Harald *see* **Eigenthaler, Günther, 98j:12001**

Items with secondary classifications in 12E10

Abhyankar, Shreeram S. Projective polynomials. (English summary) **98a:12001**
Filipponi, Piero Modified Dickson polynomials. **98a:11018**
He, Matthew X. (*with* Simon, David S.; Ricci, Paolo Emilio) Dynamics of the zeros of Fibonacci polynomials. **98e:11018**
Lee, June Bok (*with* Park, Young Ho) Some permuting trinomials over finite fields. (English summary) **98i:11104**
Park, Young Ho *see* **Lee, June Bok, 98i:11104**
Ricci, Paolo Emilio *see* **He, Matthew X.; et al., 98e:11018**
Simon, David S. *see* **He, Matthew X.; et al., 98e:11018**
Trenčevski, Kostadin G. On some classes of 4 and 5-parametric families of equations of degrees 5 and 6, having solutions in radicals. (English and Macedonian summaries) **98i:12002**
Vaidya, Sanju Generalized Puiseux expansions and their Galois groups. **98b:13019**
Young, Paul Thomas Congruences for generalised Dickson polynomials. **98c:11133**

12E12 Equations

Grosjean, C. C. Solving the general quintic equation by means of elementary algebraic techniques. (English summary) **98m:12001**
Mi, Jia Xin Theory of equations and curves. VI. A theorem on equations of division (type *B*). (Chinese. English and Chinese summaries)
Trenčevski, Kostadin G. On some classes of 4 and 5-parametric families of equations of degrees 5 and 6, having solutions in radicals. (English and Macedonian summaries) **98i:12002**

Items with secondary classifications in 12E12

Vishne, Uzi Factorization of trinomials over Galois fields of characteristic 2. (English summary) **98i:11106**

12E15 Skew fields, division rings [see also 11R52, 11R54, 11S45, 16Kxx]

Items with secondary classifications in 12E15

Amine, Kaidi *see* **L'Moufadal, Ben Yakoub; et al., 98f:16022**
Jacobson, Nathan ★ Finite-dimensional division algebras over fields. (English summary) **98a:16024**
Kalhoff, Franz B. On formally real division algebras and quasifields of rank two. (*see* **98d:53003**)
— On formally real division algebras and quasifields of finite rank. (English summary) **98i:12001**
L'Moufadal, Ben Yakoub (*with* Amine, Kaidi; Malliavin, Marie-Paule) Caractérisation des automorphismes et des dérivations intérieurs des algèbres de division. (English summary) [Characterization of the inner automorphisms and derivations of division algebras] **98f:16022**
Malliavin, Marie-Paule *see* **L'Moufadal, Ben Yakoub; et al., 98f:16022**
Priess-Crampe, S. (*with* Ribenboim, Paulo) Homogeneous ultrametric spaces. **98g:54070**
Quéguiner, Anne Cohomological invariants of algebras with involution. **98i:16019**
Ribenboim, Paulo *see* **Priess-Crampe, S., 98g:54070**
Saltman, David J. Division algebras over p-adic curves. (English summary) **98d:16032**

12E20 Finite fields (field-theoretic aspects)

Delpeyroux, E. *see* **Lacan, J., 98c:12001**
Lacan, J. (*with* Delpeyroux, E.) A note on normal bases. (English summary) **98c:12001**

Items with secondary classifications in 12E20

Clarke, Francis W. The discrete Fourier transform of a recurrent sequence. (English summary) **98g:65133**
Garcia-Roig, J.-L. (*with* Salillas, J.) On a Pythagorean functional equation involving finite fields. **98m:11133**
Liu, Mulan (*with* Mullen, Gary L.) Irreducible polynomials and linear recurring arrays. (English summary) **98a:11176**
Morgan, Ilene H. (*with* Mullen, Gary L.; Živković, Miodrag) Almost weakly self-dual bases for finite fields. (English summary) **98i:11107**
Mullen, Gary L. *see* **Liu, Mulan, 98a:11176** *and* **Morgan, Ilene H.; et al., 98i:11107**
Salillas, J. *see* **Garcia-Roig, J.-L., 98m:11133**
Živković, Miodrag *see* **Morgan, Ilene H.; et al., 98i:11107**

12E25 Hilbertian fields; Hilbert's irreducibility theorem

Dvornicich, R. Independence of values of algebraic functions. (English summary) **98c:12002**
Jarden, Moshe Large normal extension of Hilbertian fields. **98e:12003**
Razon, Aharon Abundance of Hilbertian domains. (English summary) **98h:12002**

Items with secondary classifications in 12E25

Dèbes, Pierre (*with* Zannier, Umberto) Hilbert's irreducibility theorem and G-functions. **98k:11102**
Jarden, Moshe (*with* Razon, Aharon) Rumely's local global principle for algebraic P$\mathscr{S}$C fields over rings. (English summary) **98d:11142**
Razon, Aharon *see* **Jarden, Moshe, 98d:11142**
Shioda, Tetsuji The algebraic equation of type E_6 and Chebotarev density. **98i:12005**
Zannier, Umberto *see* **Dèbes, Pierre, 98k:11102**

12E99 None of the above, but in this section

Austin, Homer W. A note on Golomb's problem. (English summary)

Items with secondary classifications in 12E99

Blum, Lenore (*with* Cucker, Felipe; Shub, Michael; Smale, Steve) Algebraic settings for the problem "P $\neq$ NP?". (English summary) **98a:68064**
Cucker, Felipe *see* **Blum, Lenore; et al., 98a:68064**
Shub, Michael *see* **Blum, Lenore; et al., 98a:68064**
Smale, Steve *see* **Blum, Lenore; et al., 98a:68064**

12Fxx Field extensions

Escofier, Jean-Pierre ★ Théorie de Galois. (French. French summary) [Galois theory] **98j:12003**

12F05 Algebraic extensions

Cohen, Stephen D. (*with* Glass, A. M. W.) Free groups from fields. **98c:12003**
Glass, A. M. W. *see* **Cohen, Stephen D., 98c:12003**
Koepf, Wolfram Closed form Laurent-Puiseux series of algebraic functions. (English summary)

Items with secondary classifications in 12F05

Dugas, Manfred (*with* Göbel, Rüdiger) Applications of abelian groups and model theory to algebraic structures. **98m:20030**
Elia, Michele Are fifth-degree equations over GF(5^m) solvable by radicals? (English summary) **98e:12002**
Fitzgerald, Robert W. Gorenstein Witt rings. II. (English summary) **98f:11031**
Göbel, Rüdiger *see* **Dugas, Manfred, 98m:20030**
(Leites, D.) *see* **Prasolov, Viktor, 98k:14064**
Prasolov, Viktor (*with* Solov′ev, Yuriĭ Pavlovich) ★ Elliptic functions and elliptic integrals. (English summary) **98k:14064**
Solov′ev, Yuriĭ Pavlovich *see* **Prasolov, Viktor, 98k:14064**

12F10 Separable extensions, Galois theory

Abhyankar, Shreeram S. Hilbert's thirteenth problem. (English and French summaries) **98i:12003**
— Projective polynomials. (English summary) **98a:12001**
— Polynomial expansion. (English summary) **98g:12003**
(Adrianov, N. M.) *see* **Davenport, James Harold, 98m:12002**
Albu, Toma (*with* Nicolae, Florin) Finite radical field extensions and crossed homomorphisms. (English summary) **98a:12002**
Anai, H. (*with* Noro, M.; Yokoyama, Kazuhiro) Computation of the splitting fields and the Galois groups of polynomials. **98a:12003**
Arnaudiès, Jean-Marie (*with* Valibouze, Annick) Lagrange resolvents. (English summary) **98f:12004**
Arrigoni, Maurice On Demuškin groups. (English summary) (*see* **98e:11003**)
Artin, Emil ★ Galois theory. (English summary) **98k:12001**
Buhler, Joe (*with* Reichstein, Zinovy) On the essential dimension of a finite group. (English summary) **98e:12004**
Cangelmi, L. Resolvents and Galois groups. (English summary) **98h:12003**
Chapman, Robin J. Automorphism polynomials in cyclic cubic extensions. (English summary) **98a:12004**
Davenport, James Harold Galois groups and the factorization of polynomials. (Russian. Russian summary) **98m:12002**
Dixon, John D. Polynomials with nontrivial relations between their roots. **98j:12004**
Drees, Christof (*with* Epkenhans, Martin; Krüskemper, Martin) On the computation of the trace form of some Galois extensions. (English summary) **98e:12004**
Efrat, Ido Free pro-p product decompositions of Galois groups. **98i:12004**
Engler, Antonio José (*with* Koenigsmann, Jochen) Abelian subgroups of pro-p Galois groups. (English summary) **98h:12004**
Epkenhans, Martin *see* **Drees, Christof; et al., 98c:12004**
Ershov, Yu. L. On semilocal fields. (Russian)
Girstmair, Kurt On quadratic relations between roots of polynomials.
Ishibashi, Yasunori (*with* Nakamizo, Tetsuya) A note on the Galois group of a quartic polynomial. (English summary) **98a:12005**
Ishkhanov, V. V. (*with* Lur′e, B. B.) On an embedding problem over a p-extension. (Russian. Russian summary) **98k:12002**
Koenigsmann, Jochen *see* **Engler, Antonio José, 98h:12004**
Krüskemper, Martin *see* **Drees, Christof; et al., 98c:12004**
Lee, Geon-No On the Galois groups of the septic polynomials. (English summary) **98b:12001**

Lur'e, B. B. *see* **Ishkhanov, V. V., 98k:12002**
(Milgram, Arthur N.) *see* **Artin, Emil, 98k:12001**
Monier, Sylvie Descente de p-extensions galoisiennes kummeriennes. [Descent of Kummerian Galois p-extensions] **98b:12002**
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Neumann, Olaf Some projective representations in Galois theory. **98c:12005**
Nicolae, Florin *see* **Albu, Toma, 98a:12002**
Noro, M. *see* **Anai, H.; et al., 98a:12003**
Odoni, R. W. K. On the Galois groups of iterated generic additive polynomials. **98g:12004**
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Tsvetkov, V. M. On an equation with a dihedral group. (Russian. Russian summary) **98a:12006**
Valibouze, Annick Computation of the Galois groups of the resolvent factors for the direct and inverse Galois problems. (English summary) **98g:12005**
— *see also* **Arnaudiès, Jean-Marie, 98f:12004**
Yokoyama, Kazuhiro A modular method for computing the Galois groups of polynomials. (English summary) **98h:12005**
— *see also* **Anai, H.; et al., 98a:12003**

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Abhyankar, Shreeram S. Factorizations over finite fields. (English summary) **98c:11130**
— (*with* Sundaram, Ganapathy S.) Galois theory of Moore-Carlitz-Drinfeld modules. (English and French summaries) **98g:11067**
Boltje, Robert Class group relations from Burnside ring idempotents. (English summary) **98i:20006**
Carboni, Aurelio (*with* Janelidze, George; Kelly, G. M.; Paré, R.) On localization and stabilization for factorization systems. (English summary) **98k:18001**
Colin, Antoine Formal computation of Galois groups with relative resolvents. (English summary) **98e:12001**
Cougnard, Jean Anneaux d'entiers et groupes de quaternions. [Rings of integers and quaternionic groups] **98m:11120**
Dai, Zong Duo *see* **Qi, Wen Feng, 98f:11019**
Fenrick, Maureen H. ★ Introduction to the Galois correspondence. (English summary) **98g:12001**
Fine, Benjamin (*with* Rosenberger, Gerhard) ★ The fundamental theorem of algebra. (English summary) **98h:30001**
Harder, G. Wittvektoren. [Witt vectors] **98e:13025**
Janelidze, George *see* **Carboni, Aurelio; et al., 98k:18001**
Jones, Gareth A. Maps on surfaces and Galois groups. (English summary) **98i:05055**
Kelly, G. M. *see* **Carboni, Aurelio; et al., 98k:18001**
Knus, Max-Albert (*with* Paques, Antonio) On cubic étale algebras. (English summary) **98m:12003**
Paques, Antonio *see* **Knus, Max-Albert, 98m:12003**
Paré, R. *see* **Carboni, Aurelio; et al., 98k:18001**
Popescu, Nicolae (*with* Zaharescu, Alexandru) On the main invariant of an element over a local field. **98e:11136**
Qi, Wen Feng (*with* Dai, Zong Duo) The trace representation of sequences and the structural analysis of the space of nonlinear filtered sequences over $\mathbf{Z}/(p^d)$. (Chinese. English and Chinese summaries) **98f:11019**
Reams, Robert A Galois approach to mth roots of matrices with rational entries. (English summary) **98e:15034**
Rosenberger, Gerhard *see* **Fine, Benjamin, 98h:30001**
Sundaram, Ganapathy S. *see* **Abhyankar, Shreeram S., 98g:11067**
Voskresenskiĭ, Valentin Evgen'evich Theory of invariants and Galois modules. **98g:14022**
Zaharescu, Alexandru *see* **Popescu, Nicolae, 98e:11136**

12F12 Inverse Galois theory

Abhyankar, Shreeram S. (*with* Loomis, Paul A.) Once more nice equations for nice groups. (English summary) **98k:12003**
Dugas, Manfred (*with* Göbel, Rüdiger) Automorphism groups of fields. II. **98j:12005**
Faddeev, D. K. *see* **Ishkhanov, V. V.; et al., 98c:12007**
Göbel, Rüdiger *see* **Dugas, Manfred, 98j:12005**
Granboulan, Louis Construction d'une extension régulière de $\mathbf{Q}(T)$ de groupe de Galois M_{24}. (English and French summaries) [Construction of a regular extension of $\mathbf{Q}(T)$ of Galois group M_{24}] **98c:12006**
Ishkhanov, V. V. (*with* Lur'e, B. B.; Faddeev, D. K.) ★ The embedding problem in Galois theory. (English summary) **98c:12007**
(Lebedinskaya, N. B.) *see* **Ishkhanov, V. V.; et al., 98c:12007**
Loomis, Paul A. *see* **Abhyankar, Shreeram S., 98k:12003**
Lur'e, B. B. *see* **Ishkhanov, V. V.; et al., 98c:12007**
Shioda, Tetsuji The algebraic equation of type E_6 and Chebotarev density. **98i:12005**
Völklein, Helmut ★ Groups as Galois groups. (English summary) **98b:12003**

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Crespo, Teresa Galois representations, embedding problems and modular forms. (English summary) **98j:11101**
Dèbes, Pierre (*with* Douai, Jean-Claude) Algebraic covers: field of moduli versus field of definition. (English and French summaries) **98k:11081**
Douai, Jean-Claude *see* **Dèbes, Pierre, 98k:11081**
Efrat, Ido Pro-p Galois groups of algebraic extensions of $\mathbf{Q}$. (English summary) **98i:11096**
Ershov, Yu. L. On free products of absolute Galois groups. (Russian) **98k:20036**
Garuti, Marco A. Rigid geometry and Galois extensions of function fields in one variable. (English summary) **98h:14029**
Monier, Sylvie Descente de p-extensions galoisiennes kummeriennes. [Descent of Kummerian Galois p-extensions] **98b:12002**
Nuzhin, Ya. N. Generators of simple groups and their applications. (English summary) **98e:20021**
Valibouze, Annick Computation of the Galois groups of the resolvent factors for the direct and inverse Galois problems. (English summary) **98g:12005**

12F15 Inseparable extensions

Deveney, James K. (*with* Mordeson, John N.) Higher derivation Galois theory of inseparable field extensions. **98c:12008**
Mordeson, John N. *see* **Deveney, James K., 98c:12008**

12F20 Transcendental extensions

Guralnick, Robert M. (*with* Müller, Peter[1]) Exceptional polynomials of affine type. (English summary) **98i:12006**
Khanduja, Sudesh K. (*with* Saha, Jayanti) A uniqueness problem in valued function fields of conics. (English summary) **98a:12008**
— On residually transcendental valued function fields of conics. **98a:12007**
Müller, Peter[1] *see* **Guralnick, Robert M., 98i:12006**
Recio, Tomas (*with* Sendra, J. Rafael) A really elementary proof of real Lüroth's theorem. (English summary) (*see* **98g:14002**)
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Ahmad, Hamza The algebraic closure in function fields of quadratic forms in characteristic 2. (English summary) **98a:11042**
Dugas, Manfred (*with* Göbel, Rüdiger) Automorphism groups of fields. II. **98j:12005**
Göbel, Rüdiger *see* **Dugas, Manfred, 98j:12005**
Hajja, Mowaffaq (*with* Kang, Ming-chang) Twisted actions of symmetric groups. (English summary) **98b:13003**
Kang, Ming-chang *see* **Hajja, Mowaffaq, 98b:13003**
Khanduja, Sudesh K. On extensions of valuations with prescribed value groups and residue fields. **98c:12013**

12F99 None of the above, but in this section

Dress, Andreas W. M. A simple, (almost) non-inductive proof for the existence of composite fields and algebraic closures.

12Gxx Homological methods (field theory)

12G05 Galois cohomology [see also 13A20, 16H05]

Barge, Jean Cohomologie des groupes et corps d'invariants multiplicatifs tordus. (English summary) [Cohomology of groups and fields of invariants under twisted multiplicative actions] **98g:12006**
Efrat, Ido On fields with finite Brauer groups. (English summary) **98e:12005**
Gao, Wenfeng (*with* Mináč, Ján) Milnor's conjecture and Galois theory. I. (English summary) **98h:12006**
(Ion, Patrick) *see* **Serre, Jean-Pierre, 98g:12007**
Knus, Max-Albert (*with* Paques, Antonio) On cubic étale algebras. (English summary) **98m:12003**
Mináč, Ján *see* **Gao, Wenfeng, 98h:12006**
Paques, Antonio *see* **Knus, Max-Albert, 98m:12003**
Serre, Jean-Pierre ★ Galois cohomology. **98g:12007**

Items with secondary classifications in 12G05

Ford, Timothy J. The Brauer group of a curve over a strictly local discrete valuation ring. (English summary) **98a:13006**
Garibaldi, Ryan (*with* Tignol, Jean-Pierre; Wadsworth, Adrian R.) Galois cohomology of special orthogonal groups. (English summary) **98k:11039**
Laghribi, Ahmed Formes quadratiques en 8 variables dont l'algèbre de Clifford est d'indice 8. (English summary) [Quadratic forms in 8 variables whose Clifford algebra has index 8] **98j:11023**
Sujatha, R. Unramified cohomology and Witt groups of anisotropic Pfister quadrics. (English summary) **98c:11034**
Tignol, Jean-Pierre *see* **Garibaldi, Ryan; et al., 98k:11039**
Wadsworth, Adrian R. *see* **Garibaldi, Ryan; et al., 98k:11039**
Yamasaki, Aiichi The Brauer group of a rational function field over a perfect field. **98e:13004**

12Hxx Differential and difference algebra

12H05 Differential algebra [see also 13Nxx]

Boussel, Katy Opérateurs hypergéométriques réductibles: décompositions et groupes de Galois différentiels. (English and French summaries) [Reducible hypergeometric operators: decompositions and differential Galois groups] **98b:12004**
Buium, Alexandru Arithmetic analogues of derivations. **98k:12004**
Carra' Ferro, G. Differential Gröbner bases in one variable and in the partial case. (English summary) **98h:12007**
van Hoeij, Mark (*with* Weil, Jacques-Arthur) An algorithm for computing invariants of differential Galois groups. (English summary) **98k:12005**
Mitschi, Claude (*with* Singer, Michael F.) The inverse problem in differential Galois theory. **98d:12002**
— Differential Galois groups of confluent generalized hypergeometric equations: an approach using Stokes multipliers. (English summary) **98f:12005**
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Ramayyan, A. (*with* Thandapani, E.) On higher-order differential equations over Hardy fields. (English summary) **98k:12006**

Ramis, Jean-Pierre About the inverse problem in differential Galois theory: the differential Abhyankar conjecture. (English summary) **98d:12003**
Singer, Michael F. *see* **Mitschi, Claude, 98d:12002**
Thandapani, E. *see* **Ramayyan, A., 98k:12006**
Toulouse, Mathilde ★ Étude de systèmes différentiels linéaires d'ordre deux et trois: algorithmes de calcul du groupe de Galois différentiel. (French. French summary) [Study of first- and second-order linear differential systems: algorithms for computing the differential Galois group] **98j:12006**
Umemura, Hiroshi Galois theory of algebraic and differential equations. **98c:12009**
— Differential Galois theory of infinite dimension. **98c:12010**
Wang, Dongming An elimination method for differential polynomial systems. I. (English summary) **98f:12006**
Weil, Jacques-Arthur *see* **van Hoeij, Mark, 98k:12005**

Items with secondary classifications in 12H05

Abramov, S. A. (*with* Tsarev, S. P.) Peripheral factorization of linear ordinary operators. (Russian. Russian summary) **98h:34012**
Braverman, Alexander (*with* Etingof, Pavel; Gaitsgory, Dennis) Quantum integrable systems and differential Galois theory. (English summary) **98g:58070**
Bronstein, Manuel ★ Symbolic integration. I. **98a:68104**
Buium, Alexandru Differential algebraic geometry and Diophantine geometry: an overview. **98g:14054**
— (*with* Pillay, Anand) A gap theorem for abelian varieties over differential fields. **98k:14062**
(Caviness, B. F.) *see* **Bronstein, Manuel, 98a:68104**
Clarkson, Peter A. *see* **Mansfield, Elizabeth L., 98c:35001**
Etingof, Pavel *see* **Braverman, Alexander; et al., 98g:58070**
Fliess, Michel (*with* Lévine, Jean; Martin, Philippe Pierre; Rouchon, Pierre) Deux applications de la géométrie locale des diffiétés. (English and French summaries) [Two applications of the local geometry of diffieties] **98i:58254**
Gaitsgory, Dennis *see* **Braverman, Alexander; et al., 98g:58070**
Gerdt, Vladimir Gröbner bases and involutive methods for algebraic and differential equations. (English summary) **98d:35010**
Ginocchio, M. On the Hopf algebra of functional graphs and differential algebras. (English summary) **98m:16042**
Lévine, Jean *see* **Fliess, Michel; et al., 98i:58254**
Mansfield, Elizabeth L. (*with* Clarkson, Peter A.) Applications of the differential algebra package `diffgrob2` to classical symmetries of differential equations. (English summary) **98c:35001**
Marker, David (*with* Messmer, M.; Pillay, Anand) ★ Model theory of fields. **98m:03075**
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Messmer, M. *see* **Marker, David; et al., 98m:03075**
Miller, Chris An extension of Hölder's theorem on the gamma function. (English summary) **98d:33002**
Péladan-Germa, Ariane Testing identities of series defined by algebraic partial differential equations. (English summary) **98d:35011**
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Sadik, Brahim The complexity of formal resolution of linear partial differential equations. (English summary) **98e:35015**
Tsarev, S. P. *see* **Abramov, S. A., 98h:34012**

12H10 Difference algebra [see also 39Axx]

Hendriks, Peter A. An algorithm for computing a standard form for second-order linear q-difference equations. (English summary) **98i:12007**

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Buium, Alexandru Arithmetic analogues of derivations. **98k:12004**
van der Put, Marius Galois theory of difference equations. A survey. (English summary) **98g:39008**

12H20 Abstract differential equations [see also 34Gxx]

Geiselmann, Willi (*with* Ulmer, Felix) Constructing a third-order linear differential equation. (English summary) (*see* **98e:00016**)
van Hoeij, Mark Formal solutions and factorization of differential operators with power series coefficients. (English summary) **98e:12006**
— Factorization of differential operators with rational functions coefficients. (English summary) **98j:12007**
MacCallum, Malcolm A. H. *see* **Man, Yiu-Kwong, 98g:12009**
Man, Yiu-Kwong (*with* MacCallum, Malcolm A. H.) A rational approach to the Prelle-Singer algorithm. (English summary) **98g:12009**
Sharif, H. Differentially algebraic power series over fields of characteristic zero. (English summary) (*see* **98h:00035**)
Singer, Michael F. Testing reducibility of linear differential operators: a group-theoretic perspective. (English summary) **98e:12007**
— (*with* Ulmer, Felix) Linear differential equations and products of linear forms. (English summary) **98g:12010**
Ulmer, Felix *see* **Singer, Michael F., 98g:12010** *and* **Geiselmann, Willi, (98e:00016)**
Weil, Jacques-Arthur First integrals and Darboux polynomials of homogeneous linear differential systems. (English summary) **98c:12011**

Items with secondary classifications in 12H20

Briskin, M. (*with* Yomdin, Y.) Algebraic families of analytic functions. I. **98h:34009b**
Bronstein, Manuel On the factorisation of linear ordinary differential operators. (English summary) **98c:34012**
Fakler, Winfried On second order homogeneous linear differential equations with Liouvillian solutions. (English summary) **98h:34013**
Françoise, Jean Pierre (*with* Yomdin, Y.) Bernstein inequalities and applications to analytic geometry and differential equations. (English summary) **98h:34009c**
Roytwarf, N. (*with* Yomdin, Y.) Bernstein classes. (English and French summaries) **98h:34009a**
Yomdin, Y. *see* **Roytwarf, N., 98h:34009a; Briskin, M., 98h:34009b** *and* **Françoise, Jean Pierre, 98h:34009c**

12H25 p-adic differential equations [see also 11S80, 14G20, 34Gxx]

Boutabaa, Abdelbaki On some p-adic functional equations. (English summary) **98g:12011**
Dwork, Bernard M. On exponents of p-adic differential modules. **98h:12008**
Escassut, Alain (*with* Khrennikov, Andrei) Nonlinear differential equations over the field of the complex p-adic numbers. (English summary) **98f:12007**
Khrennikov, Andrei *see* **Escassut, Alain, 98f:12007**
Sarmant-Durix, Marie-Claude Racines p-ièmes analytiques de certaines fractions rationnelles. [Analytic pth roots of certain rational fractions] **98c:12012**
Setoyanagi, Minoru Note on Clark's theorem for p-adic convergence. (English summary) **98d:12004**

Items with secondary classifications in 12H25

Bertolin, Cristiana G-fonctions et cohomologie des hypersurfaces singulières. (English summary) [G-functions and cohomology of singular hypersurfaces] **98m:11064**
Katz, Nicholas Correction to: "On the monodromy groups attached to certain families of exponential sums" [Duke Math. J. **54** (1987), no. 1, 41–56; MR 88i:11053]. **98b:14017**
Loeser, François Principe de Boyarsky et $\mathscr{D}$-modules. [Boyarsky principles and $\mathscr{D}$-modules] **98b:14017**

12Jxx Topological fields

12J10 Valued fields

Groza, Ghiocel On a class of integral functions in valued fields. (English summary) **98d:12005**
Khanduja, Sudesh K. On extensions of valuations with prescribed value groups and residue fields. **98c:12013**
Park, Dae Yeon On some special valuation rings in a field containing higher level preorderings. **98d:12006**
Popescu, Angel The completion of a Gauss type valuation field.

Items with secondary classifications in 12J10

Green, Barry Geometric families of constant reductions and the Skolem property. (English summary) **98k:11084**
Khanduja, Sudesh K. (*with* Saha, Jayanti) On a generalization of Eisenstein's irreducibility criterion. (English summary) **98f:12002**
Mainetti, Nicolas Algebras of abstract analytic elements. (English summary) **98e:46095**
Nagata, Masayoshi On Zariski's problem concerning the 14th problem of Hilbert. **98b:13005**
Saha, Jayanti *see* **Khanduja, Sudesh K., 98f:12002**
Sarmant-Durix, Marie-Claude Analytic functions that are p-th roots of rational functions. (English summary) **98e:46097**

12J15 Ordered fields

Banaschewski, Bernhard On proving the existence of complete ordered fields.
Dales, H. Garth (*with* Woodin, W. Hugh) ★ Super-real fields. **98b:12005**
Perović, Žikica *see* **Stojanović, Jadran**
Stojanović, Jadran (*with* Perović, Žikica) It is consistent that there exists an η_1-ordered real closed field which is not hyper-real. (English summary)
Woodin, W. Hugh *see* **Dales, H. Garth, 98b:12005**

Items with secondary classifications in 12J15

Andradas, Carlos (*with* Bröcker, Ludwig; Ruiz, Jesús M.) ★ Constructible sets in real geometry. **98e:14056**
Bröcker, Ludwig *see* **Andradas, Carlos; et al., 98e:14056**
Dolzmann, Andreas (*with* Sturm, Thomas) Simplification of quantifier-free formulae over ordered fields. (English summary) **98j:68067**
Ehrlich, Philip Universally extending arithmetic continua. **98j:03051**
— From completeness to Archimedean completeness. An essay in the foundations of Euclidean geometry. **98f:51003**
Marshall, Murray A. ★ Spaces of orderings and abstract real spectra. **98b:14041**
Park, Dae Yeon A note on compatible valuations with higher level complete preorderings and higher level orderings. (English summary)
Redfield, R. H. Internal characterizations of lattice-ordered power series fields. **98i:06008**
Ruiz, Jesús M. *see* **Andradas, Carlos; et al., 98e:14056**
Sturm, Thomas *see* **Dolzmann, Andreas, 98j:68067**

12J20 General valuation theory

Popescu, Nicolae (*with* Vraciu, Constantin) On the extension of a valuation on a field K to $K(X)$. II. (English summary) **98d:12007**
Vraciu, Constantin *see* **Popescu, Nicolae, 98d:12007**

Items with secondary classifications in 12J20

Engler, Antonio José (*with* Koenigsmann, Jochen) Abelian subgroups of pro-p Galois groups. (English summary) **98h:12004**
Koenigsmann, Jochen *see* **Engler, Antonio José, 98h:12004**

12J25 Non-Archimedean valued fields [see also 30G06, 32P05, 46S10, 47S10]

Boussaf, Kamal Décomposition de Motzkin dans une algèbre d'éléments analytiques. (French summary) [Motzkin decomposition in an algebra of analytic elements] **98f:12008**

(Diarra, Bertin) *see* **Sarmant-Durix, Marie-Claude**, (**98a:00009**)

(Escassut, Alain) *see* **Sarmant-Durix, Marie-Claude**, (**98a:00009**)

Sarmant-Durix, Marie-Claude Compléments sur les caractères d'un groupe analytique p-adique. [More on the characters of a p-adic analytic group] (*see* **98a:00009**)

Items with secondary classifications in 12J25

Beckenstein, Edward (*with* Narici, Lawrence; Schikhof, W. H.) Isometries between valued fields. (English summary) **98g:46112**

Boutabaa, Abdelbaki (*with* Escassut, Alain) Uniqueness of p-adic meromorphic functions. (English and French summaries) **98m:30064**

Diarra, Bertin Base de Mahler et autres. [The Mahler basis and other bases] **98e:46093**

Endo, Mikihiko Analytic properties of functions represented by p-adic integration. **98k:11175**

Escassut, Alain *see* **Boutabaa, Abdelbaki**, **98m:30064**

Gouvêa, Fernando Q. ★ p-adic numbers. (English summary) **98h:11155**

Narici, Lawrence *see* **Beckenstein, Edward; et al.**, **98g:46112**

Ren, Guanshen Non-Archimedean normed linear spaces. (English summary) **98h:46084**

Sarmant-Durix, Marie-Claude Caractères p-adiques d'un groupe de produits méromorphes. [p-adic characters of a group of meromorphic products] **98i:11102**

Schikhof, W. H. *see* **Beckenstein, Edward; et al.**, **98g:46112**

Woodcock, C. F. Special p-adic analytic functions and Fourier transforms. **98a:11169**

— The automorphism group of a p-adic convolution algebra. **98k:11177**

Zheng, Shijun Riesz type kernels over the ring of integers of a local field. (English summary) **98i:43003**

12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]

Escassut, Alain (*with* Haddad, Labib; Sarmant-Durix, Marie-Claude) Characterial functions. (English summary) **98g:12012**

Haddad, Labib *see* **Escassut, Alain; et al.**, **98g:12012**

Sarmant-Durix, Marie-Claude *see* **Escassut, Alain; et al.**, **98g:12012**

Items with secondary classifications in 12J27

Dwork, Bernard M. On exponents of p-adic differential modules. **98h:12008**

12J99 None of the above, but in this section

Items with secondary classifications in 12J99

Gokhman, Dmitry Functions in a Hardy field not ultimately C^∞. (English summary) **98e:26024**

Perović, Žikica On some expansions of hyper-real fields. (English summary) **98m:03077**

Priess-Crampe, S. (*with* Ribenboim, Paulo) Generalized ultrametric spaces. I. **98g:54069**

— (*with* Ribenboim, Paulo) Homogeneous ultrametric spaces. **98g:54070**

Ribenboim, Paulo *see* **Priess-Crampe, S.**, **98g:54069** *and* **98g:54070**

Shell, Niel Big sets. (English summary) **98g:54091**

12Kxx Generalizations of fields

12K05 Near-fields [see also 16Y30]

Gröger, Detlef Eine Bemerkung zur Anordnungsfähigkeit von Fastkörpern. (English summary) [A remark on the orderability of nearfields]

Il'inykh, A. P. Finite neofields and 2-transitive groups. (Russian. Russian summary) **98m:12004**

Stefănescu, Mirela E. Near-rings and geometry. (English summary) **98g:12013**

Items with secondary classifications in 12K05

Bagley, Scott W. Polynomial near-rings: polynomials with coefficients from a near-ring. (English summary) **98i:16046**

12K99 None of the above, but in this section

Kalhoff, Franz B. On formally real division algebras and quasifields of rank two. (*see* **98d:53003**)

Kamiya, Noriaki (*with* Santilli, Ruggero Maria) A characterization of pseudoisofields [Algebras Groups Geom. **13** (1996), no. 3, 283–294; MR 97k:35255]. (English summary) (*see* **98d:00020**)

Santilli, Ruggero Maria *see* **Kamiya, Noriaki**, (**98d:00020**)

12Lxx Connections with logic

12L05 Decidability [see also 03B25]

Items with secondary classifications in 12L05

Delon, Françoise **Q** muni de l'arithmétique faible de Penzin est décidable. (English summary) [**Q** equipped with the weak Penzin arithmetic is decidable] **98d:03017**

Ershov, Yu. L. Nice locally global fields. I. (Russian. Russian summary) **98g:03091a**

— Nice locally global fields. II. (Russian. Russian summary) **98g:03091b**

— Nice locally global fields. III. (Russian. Russian summary) **98g:03091c**

Jarden, Moshe Large normal extension of Hilbertian fields. **98e:12003**

Wang, Shi Qiang Satisfiability of sentences in the first-order theory of fields. (Chinese. English and Chinese summaries) **98e:03027**

12L12 Model theory [see also 03C60]

Items with secondary classifications in 12L12

Delon, Françoise (*with* Farré, Rafel) Some model theory for almost real closed fields. (English summary) **98k:03084**

van den Dries, Lou T-convexity and tame extensions. II. **98h:03048**

Ehrlich, Philip Universally extending arithmetic continua. **98j:03051**

Farré, Rafel *see* **Delon, Françoise**, **98k:03084**

Macintyre, Angus (*with* Marker, David) A failure of quantifier elimination. (English summary) **98k:03085**

Marker, David *see* **Macintyre, Angus**, **98k:03085**

Schmid, Joachim Existentially closed fields with holomorphy rings. (English summary) **98i:03051**

Simonetta, Patrick Une correspondance entre anneaux partiels et groupes. (English summary) [A correspondence between partial rings and groups] **98m:03076**

12L99 None of the above, but in this section

Ikeda, Koichiro On theories having a small Galois group. **98d:12008**

Items with secondary classifications in 12L99

Shlapentokh, Alexandra Algebraic and Turing separability of rings. (English summary) **98g:03110**

12Y05 Computational aspects of field theory and polynomials

Fleischmann, Peter (*with* Roelse, Peter) Comparative implementations of Berlekamp's and Niederreiter's polynomial factorization algorithms. (English summary) **98a:12009**

Roelse, Peter *see* **Fleischmann, Peter**, **98a:12009**

Items with secondary classifications in 12Y05

Gianni, P. (*with* Trager, B.) Square-free algorithms in positive characteristic. (English summary) **98j:13024**

Granboulan, Louis Construction d'une extension régulière de $\mathbf{Q}(T)$ de groupe de Galois M_{24}. (English and French summaries) [Construction of a regular extension of $\mathbf{Q}(T)$ of Galois group M_{24}] **98c:12006**

Hidber, C. A generalisation of the Cantor-Zassenhaus algorithm. (English summary) **98k:11179**

Jouanolou, J. P. Formes d'inertie et résultant: un formulaire. [Inertial forms and resultant: some formulas] **98k:14002**

Koepf, Wolfram Closed form Laurent-Puiseux series of algebraic functions. (English summary)

Łuczak, Tomasz (*with* Pyber, László) On random generation of the symmetric group [MR 95b:20004]. (English summary) (*see* **98d:00027**)

Pirastu, Roberto (*with* Strehl, Volker) Rational summation and Gosper-Petkovšek representation. (English summary) **98a:68107**

Pyber, László *see* **Łuczak, Tomasz**, (**98d:00027**)

Robbiano, Lorenzo (*with* Sweedler, Moss) Ideal and subalgebra coefficients. (English summary) **98j:13029**

Strehl, Volker *see* **Pirastu, Roberto**, **98a:68107**

Sweedler, Moss *see* **Robbiano, Lorenzo**, **98j:13029**

Trager, B. *see* **Gianni, P.**, **98j:13024**

Yokoyama, Kazuhiro A modular method for computing the Galois groups of polynomials. (English summary) **98h:12005**

13–XX Commutative rings and algebras

13–01 Instructional exposition (textbooks, tutorial papers, etc.)

Berger, Robert W. Kommutative Algebra. I. (German summary) [Commutative algebra. I] **98e:13001**
Călugăreanu, Grigore (*with* Hamburg, Peter) ★ Exercises in basic ring theory. (English summary) **98m:13001**
Hamburg, Peter *see* **Călugăreanu, Grigore, 98m:13001**
Lafon, Jean-Pierre Ideals and modules. **98a:13001**
Reid, Miles ★ Undergraduate commutative algebra. (English summary) **98c:13001**
Valenti, Santi From the integers to the hyperreal numbers. A step-by-step introduction to nonstandard analysis. (Italian) **98k:13001**

Items with secondary classifications in 13–01

Baskakov, A. G. ★ Лекции по алгебре. (Russian. Russian summary) [Lectures in algebra] **Rotman, Joseph J.** ★ A first course in abstract algebra. **98f:00003**

13–02 Research exposition (monographs, survey articles)

Cahen, Paul-Jean (*with* Chabert, Jean-Luc) ★ Integer-valued polynomials. **98a:13002**
Chabert, Jean-Luc *see* **Cahen, Paul-Jean, 98a:13002**

Items with secondary classifications in 13–02

Finn, Robert T. Reflections on the global dimensions of rings of continuous functions. **98g:13012**
Smith, Larry Polynomial invariants of finite groups. A survey of recent developments. (English summary) **98i:13009**

13–04 Explicit machine computation and programs (not the theory of computation or programming)

Greuel, Gert-Martin Description of SINGULAR: a computer algebra system for singularity theory, algebraic geometry and commutative algebra. (English summary) **98d:13001**

13–06 Proceedings, conferences, collections, etc.

(Anderson, Daniel D.) *see* **Factorization in integral domains, 98c:13002**
(Cox, David A.) *see* **Applications of computational algebraic geometry, 98h:13001**
(Geramita, Anthony V.) *see* **Seminar: Curves, 98c:13003**
(Goze, Michel) *see* **Rings and modules, 98h:13002**
(Sturmfels, Bernd) *see* **Applications of computational algebraic geometry, 98h:13001**

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Applications of computational algebraic geometry ★ Applications of computational algebraic geometry. **98h:13001**
Colmar ★ Anneaux et modules. (French) [Rings and modules] **98h:13002**
Conference:
Algebra ★ Anneaux et modules. (French) [Rings and modules] **98h:13002**
Factorization in Integral Domains ★ Factorization in integral domains. **98c:13002**
Research into the Homological Characteristics of Graded Commutative Rings ★ Jisū tsuki kakan kan no homorojikaru-na seishitsu no kenkyū. (Japanese) [Research into the homological characteristics of graded commutative rings] **98e:13002**
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Kingston, ON ★ The Curves Seminar at Queen's. Vol. XI. **98c:13003**
Proceedings of Symposia in Applied Mathematics ★ Applications of computational algebraic geometry. **98h:13001**
Research into the homological characteristics of graded commutative rings ★ Jisū tsuki kakan kan no homorojikaru-na seishitsu no kenkyū. (Japanese) [Research into the homological characteristics of graded commutative rings] **98e:13002**
Rings and modules ★ Anneaux et modules. (French) [Rings and modules] **98h:13002**
San Diego, CA ★ Applications of computational algebraic geometry. **98h:13001**
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Curves ★ The Curves Seminar at Queen's. Vol. XI. **98c:13003**
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Items with secondary classifications in 13–06

(Alev, J.) *see* **Noncommutative algebra, quantum groups and invariants, 98g:00028**
(Cauchon, G.) *see* **Noncommutative algebra, quantum groups and invariants, 98g:00028**
(Goze, Michel) *see* **Algebra laws and algebraic varieties, 98h:17001**

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Algebra laws and algebraic varieties ★ Lois d'algèbres et variétés algébriques. (French) [Algebra laws and algebraic varieties] **98h:17001**
Algèbre non commutative, groupes quantiques et invariants ★ Algèbre non commutative, groupes quantiques et invariants. [Noncommutative algebra, quantum groups and invariants] **98g:00028**
Colmar ★ Lois d'algèbres et variétés algébriques. (French) [Algebra laws and algebraic varieties] **98h:17001**
Conference:
Algebra ★ Lois d'algèbres et variétés algébriques. (French) [Algebra laws and algebraic varieties] **98h:17001**
Noncommutative Algebra, Quantum Groups and Invariants ★ Algèbre non commutative, groupes quantiques et invariants. [Noncommutative algebra, quantum groups and invariants] **98g:00028**
Lois d'algèbres et variétés algébriques ★ Lois d'algèbres et variétés algébriques. (French) [Algebra laws and algebraic varieties] **98h:17001**
Noncommutative algebra, quantum groups and invariants ★ Algèbre non commutative, groupes quantiques et invariants. [Noncommutative algebra, quantum groups and invariants] **98g:00028**
Reims ★ Algèbre non commutative, groupes quantiques et invariants. [Noncommutative algebra, quantum groups and invariants] **98g:00028**

13Axx General commutative ring theory

13A02 Graded rings [see also 16W50]

Campbell, H. E. A. (*with* Geramita, Anthony V.; Hughes, I. P.; Smith, G. G.; Wehlau, David L.) Hilbert functions of graded algebras. (English summary) **98d:13002**
Campillo, Antonio (*with* Galindo Pastor, Carlos) On the graded algebra relative to a valuation. (English summary) **98a:13003**
Deo, Satya (*with* Kumar Maitra, Jitendra) Automorphism groups of truncated polynomial algebras. (English summary) **98k:13002**
Galindo Pastor, Carlos *see* **Campillo, Antonio, 98a:13003**
Geramita, Anthony V. *see* **Campbell, H. E. A.; et al., 98d:13002**
Hughes, I. P. *see* **Campbell, H. E. A.; et al., 98d:13002**
Kumar Maitra, Jitendra *see* **Deo, Satya, 98k:13002**
Smith, G. G. *see* **Campbell, H. E. A.; et al., 98d:13002**
Vasconcelos, Wolmer V. The reduction number of an algebra. (English summary) **98f:13001**
Wehlau, David L. *see* **Campbell, H. E. A.; et al., 98d:13002**

Items with secondary classifications in 13A02

Avramov, Luchezar L. (*with* Buchweitz, Ragnar-Olaf; Sally, Judith D.) Laurent coefficients and Ext of finite graded modules. **98a:13025**
Blancafort, Cristina Hilbert functions of graded algebras over Artinian rings. (English summary) **98m:13023**
Buchweitz, Ragnar-Olaf *see* **Avramov, Luchezar L.; et al., 98a:13025**
Chibloun, Rachid (*with* Micali, Artibano) Dimension de Krull des algèbres graduées. [Krull dimension of graded algebras] **98i:13017**
Harima, Tadahito Artin graded rings with the weak Stanley property. (Japanese) (*see* **98e:13002**)
Micali, Artibano *see* **Chibloun, Rachid, 98i:13017**
Sally, Judith D. *see* **Avramov, Luchezar L.; et al., 98a:13025**
Smith, Karen E. Tight closure in graded rings. **98e:13009**
Vasconcelos, Wolmer V. The homological degree of a module. (English summary) **98f:13046**

13A05 Divisibility

Anderson, Daniel D. (*with* Quintero-Contreras, Roy Omar) Some generalizations of GCD-domains. **98i:13001**
— (*with* Valdes-Leon, Silvia) Factorization in commutative rings with zero divisors. II. **98j:13001**
Anderson, David F. Elasticity of factorizations in integral domains: a survey. **98j:13002**
Halter-Koch, Franz Finitely generated monoids, finitely primary monoids, and factorization properties of integral domains. **98h:13003**
Mott, Joe L. The theory of divisibility. **98m:13002**
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— (*with* Winner, Janice) Factorization in $K[\![S]\!]$. (English summary) **98k:13027**
Chapman, Scott T. (*with* Geroldinger, Alfred) Krull domains and monoids, their sets of lengths, and associated combinatorial problems. **98g:13017**
Choi, Sangki Unique factorization in two-dimensional complete intersections. (English summary) **98j:13018**
Geroldinger, Alfred Chains of factorizations in weakly Krull domains. **98g:13019**
— Chains of factorizations and sets of lengths. **98e:13019**
— *see also* **Chapman, Scott T., 98g:13017**
Park, Jea-Nam *see* **Anderson, David F., 98k:13026**
Winner, Janice *see* **Anderson, David F., 98k:13027**

13A10 Radical theory

Banaschewski, Bernhard (*with* Vermeulen, J. J. C.) Polynomials and radical ideals. **98c:13004**
Vermeulen, J. J. C. *see* **Banaschewski, Bernhard, 98c:13004**

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Becker, Eberhard (*with* Grobe, Rudolf; Niermann, Michael) Radicals of binomial ideals. (English summary) **98k:13029**
Grobe, Rudolf *see* **Becker, Eberhard; et al., 98k:13029**
Niermann, Michael *see* **Becker, Eberhard; et al., 98k:13029**

13A15 Ideals; multiplicative ideal theory

Badawi, Ayman On comparability of ideals of commutative rings. **98m:13003**
Divaani-Aazar, K. (*with* Tousi, M.) Asymptotic associated and attached prime ideals related to projective modules. (English summary) **98a:13004**
Gilmer, Robert An intersection condition for prime ideals. **98h:13004**

Heinzer, William (*with* Huneke, Craig) The Dedekind-Mertens lemma and the contents of polynomials. (English summary) **98j:13003**
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Kang, Byung Gyun (*with* Oh, Dong Yeol) Lifting up an infinite chain of prime ideals to a valuation ring. (English summary) **98e:13003**
Matsuda, Ryûki *see* **Okabe, Akira, 98i:13003**
Naude, Cornelia Asymptotic behaviour of attached primes. **98i:13002**
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Segal, Dan Ideals of finite index in a polynomial ring. **98a:13005**
Smith, Karen E. (*with* Swanson, Irena) Linear bounds on growth of associated primes. **98k:13003**
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Tousi, M. *see* **Divaani-Aazar, K., 98a:13004**
Wang, Hsin-Ju A note on powers of ideals. (English summary) **98m:13004**
Yassemi, Siamak Coassociated primes of modules over a commutative ring. (English summary) **98j:13004**

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Anderson, Daniel D. (*with* Zafrullah, Muhammad) On t-invertibility. IV. **98e:13024**
— (*with* Valdes-Leon, Silvia) Factorization in commutative rings with zero divisors. II. **98j:13001**
Belaïd, Karim (*with* Cherif, Bahri; Echi, Othman) On spectral binary relation [relations]. **98a:06001**
Berger, Robert W. Kommutative Algebra. I. (German summary) [Commutative algebra. I] **98e:13001**
Bouchiba, Samir (*with* Girolami, Florida; Kabbaj, Salah-Eddine) The dimension of tensor products of AF-rings. **98b:13009**
Cherif, Bahri *see* **Belaïd, Karim; et al., 98a:06001**
Coykendall, Jim A characterization of polynomial rings with the half-factorial property. **98h:13026**
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Fontana, Marco (*with* Huckaba, James A.; Papick, Ira J.) ★ Prüfer domains. (English summary) **98d:13021**
Fuchs, László[1] (*with* Lee, Sang Bum[1]) Primary decompositions of torsion modules over domains. **98h:13010**
Girolami, Florida *see* **Bouchiba, Samir; et al., 98b:13009**
Halter-Koch, Franz Generalized integral closures. **98e:13014**
Heinzer, William (*with* Lantz, David) Coefficient and stable ideals in polynomial rings. **98d:13024**
— (*with* Ratliff, L. J., Jr.; Shah, Kishor) On the irreducible components of an ideal. (English summary) **98j:13022**
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Loper, K. Alan Ideals of integer-valued polynomial rings. **98d:13023**
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Zafrullah, Muhammad *see* **Anderson, Daniel D., 98e:13024**
Zeng, Guang Xing (*with* Dai, Zhi Zhong) Real Hilbert rings. (Chinese. English and Chinese summaries) **98i:13042**

13A18 Valuations and their generalizations

Fu, David Local weak simultaneous resolution for high rational ranks. **98m:13005**
Kim, Mee-Kyoung Factorization of an integrally closed ideal in two-dimensional regular local rings. (English summary) **98b:13001**
Madden, James J. (*with* Schwartz, Niels) Separating ideals in dimension 2. (English summary) **98k:13004**
Park, Dae Yeon A note on compatible valuations with higher level complete preorderings and higher level orderings. (English summary)
Schwartz, Niels *see* **Madden, James J., 98k:13004**

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Berger, Robert W. Kommutative Algebra. I. (German summary) [Commutative algebra. I] **98e:13001**
Campillo, Antonio (*with* Galindo Pastor, Carlos) On the graded algebra relative to a valuation. (English summary) **98a:13003**
Dobbs, David E. On flat divided prime ideals. **98h:13021**
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Gonçalves, J. Z. (*with* Mandel, Arnaldo) A commutativity theorem for division rings and an extension of a result of Faith. (English summary) **98e:16032**
Halter-Koch, Franz Generalized integral closures. **98e:13014**
Khanduja, Sudesh K. (*with* Saha, Jayanti) A uniqueness problem in valued function fields of conics. (English summary) **98a:12008**
— On residually transcendental valued function fields of conics. **98a:12007**
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Shirasou, Takeo The uniqueness of Henselian valuations in Neukirch's general class field theory. **98f:11124**

13A20 Brauer groups [see also 12Gxx, 16H05]

Ford, Timothy J. The Brauer group of a curve over a strictly local discrete valuation ring. (English summary) **98a:13006**
Guletskiĭ, V. I. (*with* Yanchevskiĭ, V. I.) Ramification and reciprocity laws in Brauer groups of function fields of numerical curves of genus one. (Russian. Russian summary) **98a:13007**
Yamasaki, Aiichi Brauer group of $\mathbf{R}(X)$ and Eichler type theorem. (English summary) **98f:13002**
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Efrat, Ido Free pro-p product decompositions of Galois groups. **98i:12004**
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Pop, Horia Calin Heisenberg algebras and coefficient rings. (English summary) **98m:16020**
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Vasyuk, G. B. (*with* Yanchevskiĭ, V. I.) On the 2-torsion of the Brauer group of local elliptic curves with good reduction that are defined over the field of 2-adic numbers. (Russian. English and Russian summaries) **98m:11055**
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Zhang, Yin Huo *see* **Caenepeel, S.; et al., 98c:16047**

13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics

Cortadellas, Teresa (*with* Zarzuela Armengou, Santiago) On the depth of the fiber cone of filtrations. **98k:13005**
Diagana, Y. (*with* Sangaré, Daouda; Dichi, Henri) Filtrations, generalized analytic independence, analytic spread. (English summary) **98f:13003**
Dichi, Henri *see* **Diagana, Y.; et al., 98f:13003**
Goto, Shiro (*with* Nakamura, Yukio[1]; Nishida, Koji) Cohen-Macaulay graded rings associated to ideals. (English summary) **98a:13008**
Herrmann, Manfred (*with* Hyry, Eero; Ribbe, Jürgen; Tang, Zhongming) Reduction numbers and multiplicities of multigraded structures. **98k:13006**
— (*with* Hyry, Eero; Korb, T.) On Rees algebras with a Gorenstein Veronese subring. **98m:13006**
Hyry, Eero *see* **Herrmann, Manfred; et al., 98k:13006** *and* **98m:13006**
Johnson, Mark Ray Second analytic deviation one ideals and their Rees algebras. (English summary) **98e:13005**
Katz, Daniel (*with* Ratliff, L. J., Jr.) Sequences and $\operatorname{Ker}(R[X_1, \cdots, X_g] \to R[tI])$. (English summary) **98i:13004**
Kim, Mee-Kyoung On certain graded rings with minimal multiplicity. (English summary) **98g:13001**
— On the Cohen-Macaulayness of the associated graded ring of an equimultiple ideal. **98j:13005**
Korb, T. *see* **Herrmann, Manfred; et al., 98m:13006**
Kurano, Kazuhiko On Macaulayfication obtained by a blow-up whose center is an equimultiple ideal. **98f:13004**
Morey, Susan Equations of blowups of ideals of codimension two and three. (English summary) **98a:13009**
Nakamura, Yukio[1] Cohen-Macaulayness of $R(I, J)$ and rational singularities of Rees rings. (Japanese) (*see* **98e:13002**)
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Ngô Viêt Trung The Castelnuovo regularity of the Rees algebra and the associated graded ring. (English summary) **98j:13006**
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O'Carroll, Liam A generic approach to the structure of certain normal ideals. (English summary) **98b:13002**
— (*with* Valla, Giuseppe) On the smoothness of blow-ups. **98g:13002**
Raghavan, K. N. (*with* Verma, J. K.) Mixed Hilbert coefficients of homogeneous d-sequences and quadratic sequences. **98i:13005**
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Wang, Hsin-Ju Some uniform properties of 2-dimensional local rings. **98e:13006**

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Blancafort, Cristina On Hilbert functions and cohomology. **98e:13017**
Dutta, S. P. Ext and Frobenius. II. **98j:13012**
Goto, Shiro (*with* Nakamura, Yukio[1]; Nishida, Koji) On the Gorensteinness in graded rings associated to certain ideals of analytic deviation one. **98i:13044**
Huckaba, Sam (*with* Marley, Thomas) Hilbert coefficients and the depths of associated graded rings. **98i:13028**
Huneke, Craig *see* **Aberbach, Ian M.; et al., 98c:13005**
Johnson, Mark Ray Note on multiplicities of blow-ups and residual intersections. **98j:13021**
Kleiman, Steven L. (*with* Ulrich, Bernd) Gorenstein algebras, symmetric matrices, self-linked ideals, and symbolic powers. (English summary) **98c:13019**
Lê Tuân Hoa Postulation number of good filtrations. **98d:13015**
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Nishida, Koji *see* **Goto, Shiro; et al., 98i:13044**
Orecchia, Ferruccio (*with* Ramella, Isabella) The conductor of one-dimensional local rings with reduced associated graded ring. (English summary) **98h:13033**
Ramella, Isabella *see* **Orecchia, Ferruccio, 98h:13033**
Rossi, M. E. (*with* Valla, Giuseppe) Cohen-Macaulay local rings of dimension two and an extended version of a conjecture of J. Sally. (English summary) **98i:13045**
Smith, Karen E. *see* **Aberbach, Ian M.; et al., 98c:13005**
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Vaz Pinto, Maria Hilbert functions and Sally modules. **98d:13016**
Wang, Hsin-Ju An interpretation of depth $(G(I))$ and $e_1(I)$ via the Sally module. **98a:13035**
— The relation-type conjecture holds for rings with finite local cohomology. **98d:13017**
— On Cohen-Macaulay local rings with embedding dimension $e + d - 2$. **98d:13027**
Watanabe, Kei-ichi F-rationality of certain Rees algebras and counterexamples to "Boutot's theorem" for F-rational rings. (English summary) **98i:13007**

13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [see also 13Mxx]

Aberbach, Ian M. (*with* Huneke, Craig; Smith, Karen E.) A tight closure approach to arithmetic Macaulayfication. **98c:13005**
— (*with* Hochster, Melvin) Finite Tor dimension and failure of coherence in absolute integral closures. (English summary) **98i:13006**
Hara, Nobuo A characterization of rational singularities in terms of injectivity of Frobenius maps. **98m:13008**
Hochster, Melvin *see* **Aberbach, Ian M., 98i:13006**
Huneke, Craig Tight closure and strong test ideals. (English summary) **98g:13003**
— (*with* Smith, Karen E.) Tight closure and the Kodaira vanishing theorem. **98e:13007**
— *see also* **Aberbach, Ian M.; et al., 98c:13005**
Kurano, Kazuhiko The use of the theory of tight closure in arithmetic Macaulayfication. (Japanese) (*see* **98e:13002**)
Moon, Myung In Tight closure and integral closure of an ideal. (English summary) **98e:13008**
— A note on tight closure and Frobenius map. **98a:13010**
Smith, Karen E. Tight closure in graded rings. **98e:13009**
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Trivedi, Vijaylaxmi Erratum: "A local Bertini theorem in mixed characteristic" [Comm. Algebra **22** (1994), no. 3, 823–827; MR 94m:13002]. **98c:13006**
Vassilev, Janet Cowden Test ideals in quotients of F-finite regular local rings. (English summary) **98m:13009**
Watanabe, Kei-ichi F-rationality of certain Rees algebras and counterexamples to "Boutot's theorem" for F-rational rings. (English summary) **98i:13007**

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Albis González, Víctor Samuel (*with* Chaparro, Raúl) On a conjecture of Borevich and Shafarevich. (English and Spanish summaries) **98g:11130**
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Buchweitz, Ragnar-Olaf (*with* Chen, Qun[2]) Hilbert-Kunz functions of cubic curves and surfaces. (English summary) **98i:13025**
Cangemi, Maria Rosa *see* **Seydi, Hamet; et al., 98a:13016**
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Dutta, S. P. A characterization of Gorenstein rings in characteristic $p(>0)$. (English summary) **98g:13026**
Keigher, William F. On the ring of Hurwitz series. (English summary) **98e:13022**
Kurano, Kazuhiko On Macaulayfication obtained by a blow-up whose center is an equi-multiple ideal. **98f:13004**
Monsky, Paul The Hilbert-Kunz function of a characteristic 2 cubic. **98i:13026**
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Seibert, Gerhard The Hilbert-Kunz function of rings of finite Cohen-Macaulay type. (English summary) **98h:13022**
Seydi, Hamet (*with* Restuccia, Gaetana; Bonanzinga, Vittoria; Cangemi, Maria Rosa; Utano, Rosanna) Sur la théorie des anneaux excellents en caractéristique p. III. Algèbres kählériennes. (French summary) [On the theory of excellent rings of characteristic p. III. Kähler algebras] **98a:13016**
Utano, Rosanna *see* **Seydi, Hamet; et al., 98a:13016**
Vaidya, Sanju Generalized Puiseux expansions and their Galois groups. **98b:13019**
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13A50 Invariant theory [see also 14D25]

Aslaksen, Helmer (*with* Chan, Shih-Ping; Gulliksen, Tor) Invariants of S_4 and the shape of sets of vectors. (English summary) **98g:13004**
Bourguiba, Dorra (*with* Zarati, Said) Depth and the Steenrod algebra. **98h:13005**
Brennan, Joseph P. Invariant theory in characteristic p: Hazlett's symbolic method for binary quantics. (English summary) **98h:13006**
Campbell, H. E. A. (*with* Hughes, I. P.; Shank, R. J.; Wehlau, David L.) Bases for rings of coinvariants. (English summary) **98a:13011**
— (*with* Hughes, I. P.) Vector invariants of $U_2(\mathbf{F}_p)$: a proof of a conjecture of Richman. (English summary) **98c:13007**
Chan, Shih-Ping *see* **Aslaksen, Helmer; et al., 98g:13004**
Derksen, Harm (*with* Kraft, Hanspeter) Constructive invariant theory. (English and French summaries) **98m:13010**
Fleischmann, Peter (*with* Lempken, W.) On generators of modular invariant rings of finite groups. (English summary) **98g:13005**
— A new degree bound for vector invariants of symmetric groups. (English summary) **98i:13008**
Göbel, Manfred On the number of special permutation-invariant orbits and terms. (English summary)
Gulliksen, Tor *see* **Aslaksen, Helmer; et al., 98g:13004**
Hajja, Mowaffaq (*with* Kang, Ming-chang) Twisted actions of symmetric groups. (English summary) **98b:13003**
Hughes, I. P. *see* **Campbell, H. E. A.; et al., 98a:13011** *and* **98c:13007**
Huneke, M. Classical invariant theory for finite reflection groups. (English summary) **98e:13010**
Iwasaki, Katsunori Basic invariants of finite reflection groups. (English summary) **98j:13007**
Kang, Ming-chang Group actions of some subgroups of parabolic subgroups. (English summary) **98c:13008**
— *see also* **Hajja, Mowaffaq, 98b:13003**
Kechagias, Nondas E. A note on $U_n \times U_m$ modular invariants. (English summary) **98c:13009**
Kemper, Gregor Calculating invariant rings of finite groups over arbitrary fields. (English summary) **98f:13005**
— (*with* Malle, Gunter) The finite irreducible linear groups with polynomial ring of invariants. (English summary) **98a:13012**
Kojima, Hideo (*with* Miyanishi, M.) On Robert's counterexample to the fourteenth problem of Hilbert. (English summary) **98j:13008**
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Mehta, Vikram (*with* Ramadas, T. R.) Frobenius splitting and invariant theory. (English summary) **98j:13009**
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Smith, Larry Polynomial invariants of finite groups. A survey of recent developments. (English summary) **98i:13009**
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Colin, Antoine Solving a system of algebraic equations with symmetries. (English summary) **98g:68070**
Jing, Naihuan (*with* Zhang, James J.) On the trace of graded automorphisms. (English summary) **98f:16029**
Lorenz, Martin Picard groups of multiplicative invariants. (English summary) **98m:13019**
Osse, Akimou λ-structures and representation rings of compact connected Lie groups. (English summary) **98k:55017**
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Voskresenskiĭ, Valentin Evgen'evich Theory of invariants and Galois modules. **98g:14022**
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13A99 None of the above, but in this section

Al-Khamees, Yousif (*with* Mordeson, John N.) Fuzzy principal ideals and fuzzy simple field extensions. (English summary) **98m:13011**
Eke, Boniface I. (*with* Lee, Kyoung Hee; Mordeson, John N.) Fuzzy derivations. (English summary) **98c:13011**
Lee, Kyoung Hee (*with* Mordeson, John N.) Factorization of fuzzy ideals in Dedekind domains. (English summary)
— (*with* Mordeson, John N.) Fractionary fuzzy ideals and fuzzy invertible fractionary fuzzy ideals. (English summary)
— *see also* **Eke, Boniface I.; et al., 98c:13011**
Mordeson, John N. *see* **Eke, Boniface I.; et al., 98c:13011**; **Al-Khamees, Yousif, 98m:13011**; **Lee, Kyoung Hee**
Rahimi, Amir M. Some improved results on B-rings. (English summary)
— Stable rings and side divisors. (English summary)
Romano, Daniel Avraám On coideals of product of commutative rings with apartness. (English summary)

Saleh, Mohammad A. (*with* Yousef, Hasan) The number of ring homomorphisms from $Z_{m_1} \times \cdots \times Z_{m_l}$ into $Z_{k_1} \times \cdots \times Z_{k_s}$.
Yousef, Hasan *see* **Saleh, Mohammad A.**

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Janjić, Milan (*with* Romano, Daniel Avraám) Essential quotient of a coideal by an ideal. (English summary) **98g:03140**
Jaworski, Piotr On the Witt rings of function fields of quasihomogeneous varieties. **98g:11044**
Madden, James J. (*with* Martinez, Jorge[2]) Monoreflections of commutative rings with identity. (English summary)
Manjunatha Prasad, K. Solvability of linear equations and rank-function. (English summary) **98c:15009**
Martinez, Jorge[2] *see* **Madden, James J.**
Reineke, Joachim Theories of rings with divisibility. (English summary) **98a:03053**
Renteria, C. (*with* Tapia-Recillas, H.) Reed-Muller codes: an ideal theory approach. (English summary) **98c:94022**
Romano, Daniel Avraám Note on two problems in constructive commutative coideal theory. (English summary) **98c:03124**
— *see also* **Janjić, Milan**, **98g:03140**
Tapia-Recillas, H. *see* **Renteria, C.**, **98c:94022**
Zhang, Guangxiang On a class of simple table algebras. (English summary) **98d:20017**

13Bxx Ring extensions and related topics

13B02 Extension theory

Oda, Susumu (*with* Yoshida, Ken-ichi[1]) On the integral closure of a Noetherian domain in its simple extension. **98a:13013**
Sugatani, Takasi (*with* Yoshida, Ken-ichi[1]) Note on extensions $R[\alpha]$ and $R[\alpha] \cap R[\alpha^{-1}]$ of an integral domain R. (English summary)
Yoshida, Ken-ichi[1] *see* **Oda, Susumu**, **98a:13013** *and* **Sugatani, Takasi**

Items with secondary classifications in 13B02

Barucci, Valentina (*with* Fröberg, Ralf) Maximality properties for one-dimensional analytically irreducible local Gorenstein and Kunz rings. **98m:13029**
Eisenbud, David (*with* Ulrich, Bernd) Modules that are finite birational algebras. **98m:13012**
Fröberg, Ralf *see* **Barucci, Valentina**, **98m:13029**
Ulrich, Bernd *see* **Eisenbud, David**, **98m:13012**

13B05 Galois theory (commutative rings)

Alfaro, Ricardo (*with* Szeto, George) On Galois extensions of an Azumaya algebra. **98h:13007**
Ferrero, Miguel A. (*with* Paques, Antonio) Galois theory of commutative rings revisited. **98i:13010**
Lastaria, Federico G. On separable algebras in Grothendieck Galois theory. (English summary) **98g:13006**
Paques, Antonio *see* **Ferrero, Miguel A.**, **98i:13010**
Szeto, George *see* **Alfaro, Ricardo**, **98h:13007**

Items with secondary classifications in 13B05

Janelidze, George (*with* Kelly, G. M.) The reflectiveness of covering morphisms in algebra and geometry. (English summary) **98k:18002**
Kelly, G. M. *see* **Janelidze, George**, **98k:18002**
Knus, Max-Albert (*with* Paques, Antonio) On cubic étale algebras. (English summary) **98m:12003**
Paques, Antonio *see* **Knus, Max-Albert**, **98m:12003**

13B10 Morphisms and derivations

Bonanzinga, Vittoria F_m-integrable derivations. II. (Italian. English summary)
— (*with* Matsumura, Hideyuki) F_m-strongly integrable derivations. **98i:13011**
Cerveau, D. Dérivations surjectives de l'anneau $\mathbf{C}[x, y]$. [Surjective derivations of the ring $\mathbf{C}[x, y]$] **98k:13007**
Daigle, Daniel A necessary and sufficient condition for triangulability of derivations of $k[X, Y, Z]$. (English summary) **98c:13012**
Li Marzi, Enzo Maria Some questions on derivations of a ring with a universal finite module of differentials. (English summary) **98b:13004**
Maloo, Alok Kumar Differential simplicity and the module of derivations. (English summary) **98c:13013**
Matsumura, Hideyuki *see* **Bonanzinga, Vittoria**, **98i:13011**

Items with secondary classifications in 13B10

Avramov, Luchezar L. (*with* Foxby, Hans-Bjørn) Ring homomorphisms and finite Gorenstein dimension. **98d:13014**
Eke, Boniface I. (*with* Lee, Kyoung Hee; Mordeson, John N.) Fuzzy derivations. (English summary) **98c:13011**
van den Essen, Arno (*with* Shpilrain, Vladimir) Some combinatorial questions about polynomial mappings. (English summary) **98g:13007**
Foxby, Hans-Bjørn *see* **Avramov, Luchezar L.**, **98d:13014**
Freudenburg, Gene Actions of $\mathbf{G}_a$ on $\mathbf{A}^3$ defined by homogeneous derivations. (English summary) **98k:14068**
Kaliman, Shulim (*with* Makar-Limanov, Leonid) On the Russell-Koras contractible threefolds. (English summary) **98m:14041**
Kojima, Hideo (*with* Miyanishi, M.) On Robert's counterexample to the fourteenth problem of Hilbert. (English summary) **98j:13008**
Lee, Kyoung Hee *see* **Eke, Boniface I.**; **et al.**, **98c:13011**
Makar-Limanov, Leonid On the hypersurface $x + x^2y + z^2 + t^3 = 0$ in $\mathbf{C}^4$ or a $\mathbf{C}^3$-like threefold which is not $\mathbf{C}^3$. (English summary) **98a:14052**
— *see also* **Kaliman, Shulim**, **98m:14041**
Miyanishi, M. *see* **Kojima, Hideo**, **98j:13008**
Mordeson, John N. *see* **Eke, Boniface I.**; **et al.**, **98c:13011**
Shpilrain, Vladimir *see* **van den Essen, Arno**, **98g:13007**

13B15 Ramification theory

Items with secondary classifications in 13B15

Barucci, Valentina (*with* Fröberg, Ralf) One-dimensional almost Gorenstein rings. **98a:13033**
Fröberg, Ralf *see* **Barucci, Valentina**, **98a:13033**
Sun, Xiaotao Ramifications on arithmetic schemes. **98i:14026**

13B21 Integral dependence

Dichi, Henri Dépendance intégrale sur une filtration. [Integral dependence on a filtration] **98d:13003**
Eisenbud, David (*with* Ulrich, Bernd) Modules that are finite birational algebras. **98m:13012**
Ulrich, Bernd *see* **Eisenbud, David**, **98m:13012**

Items with secondary classifications in 13B21

Diagana, Y. (*with* Sangaré, Daouda; Dichi, Henri) Filtrations, generalized analytic independence, analytic spread. (English summary) **98f:13003**
Dichi, Henri *see* **Diagana, Y.**; **et al.**, **98f:13003**
Lucas, Thomas G. The integral closure of $R\langle x\rangle$ and $R\langle x\rangle$. **98a:13015**
Sangaré, Daouda *see* **Diagana, Y.**; **et al.**, **98f:13003**

13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)

Ayache, Ahmed (*with* Jaballah, Ali) Residually algebraic pairs of rings. **98d:13004**
Bonanzinga, Vittoria *see* **Seydi, Hamet**; **et al.**, **98a:13016**
Bruns, Winfried (*with* Vasconcelos, Wolmer V.; Villarreal, Rafael H.) Degree bounds in monomial subrings. **98e:13013**
Cangemi, Maria Rosa *see* **Seydi, Hamet**; **et al.**, **98a:13016**
Chung, Sang-Cho (*with* Lee, Dong Soo) Asymptotic sequences and generalized fractions. **98c:13014**
Delfino, Donatella (*with* Swanson, Irena) Integral closure of ideals in excellent local rings. **98a:13014**
Gilmer, Robert On complete integral closure and Archimedean valuation domains. (English summary) **98d:13005**
Jaballah, Ali *see* **Ayache, Ahmed**, **98d:13004**
Lee, Dong Soo *see* **Chung, Sang-Cho**, **98c:13014**
Lucas, Thomas G. Characterizing when $R\langle X\rangle$ is completely integrally closed. **98m:13013**
— The integral closure of $R\langle x\rangle$ and $R\langle x\rangle$. **98a:13015**
McAdam, Stephen Lifting chains of primes. **98k:13008**
Nagata, Masayoshi On Zariski's problem concerning the 14th problem of Hilbert. **98b:13005**
Restuccia, Gaetana *see* **Seydi, Hamet**; **et al.**, **98a:13016**
Roitman, Moshe On root closure in Noetherian domains. (English summary) **98h:13008**
Seydi, Hamet (*with* Restuccia, Gaetana; Bonanzinga, Vittoria; Cangemi, Maria Rosa; Utano, Rosanna) Sur la théorie des anneaux excellents en caractéristique p. III. Algèbres kählériennes. (French summary) [On the theory of excellent rings of characteristic p. III. Kähler algebras] **98a:13016**
Swanson, Irena *see* **Delfino, Donatella**, **98a:13014**
Utano, Rosanna *see* **Seydi, Hamet**; **et al.**, **98a:13016**
Vasconcelos, Wolmer V. *see* **Bruns, Winfried**; **et al.**, **98e:13013**
Villarreal, Rafael H. *see* **Bruns, Winfried**; **et al.**, **98e:13013**

Items with secondary classifications in 13B22

Aberbach, Ian M. (*with* Hochster, Melvin) Finite Tor dimension and failure of coherence in absolute integral closures. (English summary) **98i:13006**
Goto, Shiro (*with* Nakamura, Yukio[1]; Nishida, Koji) Cohen-Macaulay graded rings associated to ideals. (English summary) **98a:13008**
Hochster, Melvin *see* **Aberbach, Ian M.**, **98i:13006**
Kamoi, Yuji Complete intersections which are abelian extensions of a factorial domain. **98c:13018**
Katz, Daniel (*with* Ratliff, L. J., Jr.) Sequences and $\operatorname{Ker}(R[X_1, \cdots, X_g] \to R[t/])$. (English summary) **98i:13004**
Nakamura, Yukio[1] *see* **Goto, Shiro**; **et al.**, **98a:13008**
Nishida, Koji *see* **Goto, Shiro**; **et al.**, **98a:13008**
Oda, Susumu (*with* Yoshida, Ken-ichi[1]) On the integral closure of a Noetherian domain in its simple extension. **98a:13013**
Ratliff, L. J., Jr. *see* **Katz, Daniel**, **98i:13004**
Yoshida, Ken-ichi[1] *see* **Oda, Susumu**, **98a:13013**

13B24 Going up; going down; going between

Items with secondary classifications in 13B24

Loepp, S. Constructing local generic formal fibers. (English summary) **98b:13008**
McAdam, Stephen (*with* Shah, Chandni) Substructures of Spec $R[X]$. **98a:13027**
— Lifting chains of primes. **98k:13008**
Shah, Chandni *see* **McAdam, Stephen**, **98a:13027**

13B25 Polynomials over commutative rings

Cahen, Paul-Jean (*with* Chapman, Scott T.; Roegner, K.; Smith, William W.) Two classes of ideals determined by integer-valued polynomials. (English and Italian summaries) **98b:13006**
Chapman, Scott T. *see* **Cahen, Paul-Jean; et al., 98b:13006**
Corso, Alberto (*with* Vasconcelos, Wolmer V.; Villarreal, Rafael H.) Generic Gaussian ideals. (English summary) **98m:13014**
van den Essen, Arno (*with* Shpilrain, Vladimir) Some combinatorial questions about polynomial mappings. (English summary) **98g:13007**
Roegner, K. *see* **Cahen, Paul-Jean; et al., 98b:13006**
Shpilrain, Vladimir *see* **van den Essen, Arno, 98g:13007**
Smith, William W. *see* **Cahen, Paul-Jean; et al., 98b:13006**
Vasconcelos, Wolmer V. *see* **Corso, Alberto; et al., 98m:13014**
Villarreal, Rafael H. *see* **Corso, Alberto; et al., 98m:13014**

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Banaschewski, Bernhard (*with* Vermeulen, J. J. C.) Polynomials and radical ideals. **98c:13004**
Barucci, Valentina (*with* Izelgue, Lahoucine; Kabbaj, Salah-Eddine) Some factorization properties of $A + XB[X]$ domains. **98a:13031**
Cahen, Paul-Jean (*with* Chabert, Jean-Luc) ★ Integer-valued polynomials. **98a:13002**
Chabert, Jean-Luc (*with* Chapman, Scott T.; Smith, William W.) Algebraic properties of the ring of integer-valued polynomials on prime numbers. **98f:13016**
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Chapman, Scott T. *see* **Chabert, Jean-Luc; et al., 98f:13016**
Fuhrmann, Paul A. ★ A polynomial approach to linear algebra. **98a:15001**
Groza, Ghiocel On a class of integral functions in valued fields. (English summary) **98d:12005**
Heinzer, William (*with* Huneke, Craig) The Dedekind-Mertens lemma and the contents of polynomials. (English summary) **98j:13003**
Huneke, Craig *see* **Heinzer, William, 98j:13003**
Izelgue, Lahoucine *see* **Barucci, Valentina; et al., 98a:13031**
Kabbaj, Salah-Eddine *see* **Barucci, Valentina; et al., 98a:13031**
Loper, K. Alan Ideals of integer-valued polynomial rings. **98d:13023**
— Sequence domains and integer-valued polynomials. (English summary) **98f:13017**
Smith, William W. *see* **Chabert, Jean-Luc; et al., 98f:13016**
Tartarone, Francesca On the Krull dimension of $\mathrm{Int}(D)$ when D is a pullback. **98b:13011**
Vermeulen, J. J. C. *see* **Banaschewski, Bernhard, 98c:13004**
Yu, Jie-Tai Identity polynomials and test polynomials. (English summary) **98d:14021**

13B30 Quotients and localization

Faith, Carl Rings with few zero divisors are those with semilocal Kasch quotient rings. (English summary) **98b:13007**
— Addendum to: "Rings whose modules have maximal submodules" [Houston J. Math. **22** (1996), no. 4, 687–690; MR 98b:13007]. .

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Benhissi, Ali Corps des fractions de $A[X]$. [Quotient field of $A[X]$] **98g:13024**
Lucas, Thomas G. The integral closure of $R\langle x\rangle$ and $R\langle x\rangle$. **98a:13015**
Schwartz, Niels Gabriel filters in real closed rings. (English summary) **98k:14079**

13B35 Completion [see also 13J10]

Loepp, S. Constructing local generic formal fibers. (English summary) **98b:13008**
Restuccia, Gaetana Sur la complétion adique d'un P-anneau non semilocal. (English summary) [Adic completion of a nonsemilocal P-ring] **98c:13015**

Items with secondary classifications in 13B35

Johnson, E. W. (*with* Johnson, Johnny A.; Taylor, Monty B.) Modules with small cofinite irreducibles, cyclic submodules and duality. (English summary) **98c:13017**
Johnson, Johnny A. *see* **Johnson, E. W.; et al., 98c:13017**
Li Marzi, Enzo Maria Some questions on derivations of a ring with a universal finite module of differentials. (English summary) **98b:13004**
Taylor, Monty B. *see* **Johnson, E. W.; et al., 98c:13017**

13B40 Étale extensions and Henselization; Artin approximation [see also 13J15, 14B12]

Items with secondary classifications in 13B40

Banaszak, Grzegorz (*with* Zelewski, Piotr) On the map between K-groups of Henselization and completion of some local rings. (English summary) **98g:19002**
Delfino, Donatella (*with* Swanson, Irena) Integral closure of ideals in excellent local rings. **98a:13014**
Fisher, Benji A note on Hensel's lemma in several variables. (English summary) **98b:13022**
Swanson, Irena *see* **Delfino, Donatella, 98a:13014**
Zelewski, Piotr *see* **Banaszak, Grzegorz, 98g:19002**

13B99 None of the above, but in this section

Halter-Koch, Franz Generalized integral closures. **98e:13014**
Heitmann, Raymond C. The plus closure in mixed characteristic. **98f:13006**
Kanemitsu, Mitsuo (*with* Yoshida, Ken-ichi[1]) Some properties of certain simple flat extensions. **98m:13016**
Oda, Susumu (*with* Yoshida, Ken-ichi[1]) The behaviour of generalized denominator ideals in anti-integral extensions. **98m:13015**
Yoshida, Ken-ichi[1] *see* **Oda, Susumu, 98m:13015** *and* **Kanemitsu, Mitsuo, 98m:13016**

13Cxx Theory of modules and ideals

Items with secondary classifications in 13Cxx

Lafon, Jean-Pierre Ideals and modules. **98a:13001**

13C05 Structure, classification theorems

Mijbass, Ali S. *see* **Naoum, Adil G., 98i:13012**
Naoum, Adil G. (*with* Mijbass, Ali S.) Weak cancellation modules. **98i:13012**

Items with secondary classifications in 13C05

Keef, Patrick An equivalence for categories of modules over a complete discrete valuation domain. (English summary) **98m:16009**

13C10 Projective and free modules and ideals [see also 18G05, 19A13]

Chen, Huan Yin Projective modules over extension rings. (Chinese. English and Chinese summaries) **98d:13006**
— Rings over which invertible modules are free. (English summary) **98f:13007**
Dugas, Manfred (*with* Göbel, Rüdiger; May, Warren Lee[2]) Free modules with two distinguished submodules. (English summary) **98h:13009**
Göbel, Rüdiger *see* **Dugas, Manfred; et al., 98h:13009**
Ischebeck, Friedrich (*with* Ojanguren, Manuel) Another example of a projective module over a localized polynomial ring. (English summary) **98k:13009**
Jukl, Marek Grassmann formula for certain type of modules. (English summary) **98d:13007**
Kumar, N. Mohan A note on unimodular rows. **98a:13017**
Lombardi, Henri Le contenu constructif d'un principe local-global avec une application à la structure d'un module projectif de type fini. (French summary) [Constructive content of a local-global principle with an application to the structure of a finitely generated projective module] **98d:13008**
Mandal, Satyagopal ★ Projective modules and complete intersections. **98k:13010**
May, Warren Lee[2] *see* **Dugas, Manfred; et al., 98h:13009**
Ojanguren, Manuel *see* **Ischebeck, Friedrich, 98k:13009**
Wang, Ming Yi (*with* Yu, Zeng Hai) Embedding problems for modules. (Chinese. Chinese summary) **98f:13008**
Yu, Zeng Hai *see* **Wang, Ming Yi, 98f:13008**

Items with secondary classifications in 13C10

Berger, Robert W. Prefinite differential modules. **98c:13032**
Divaani-Aazar, K. (*with* Tousi, M.) Asymptotic associated and attached prime ideals related to projective modules. (English summary) **98a:13004**
Laubenbacher, Reinhard C. (*with* Woodburn, Cynthia J.) An algorithm for the Quillen-Suslin theorem for monoid rings. (English summary) **98f:13027**
Lenstra, H. W., Jr. *see* **de Smit, Bart, 98j:13010**
Mijbass, Ali S. *see* **Naoum, Adil G., 98i:13012**
Naoum, Adil G. (*with* Mijbass, Ali S.) Weak cancellation modules. **98i:13012**
de Smit, Bart (*with* Lenstra, H. W., Jr.) Finite complete intersection algebras and the completeness radical. (English summary) **98j:13010**
Tousi, M. *see* **Divaani-Aazar, K., 98a:13004**
Woodburn, Cynthia J. *see* **Laubenbacher, Reinhard C., 98f:13027**

13C11 Injective and flat modules and ideals [see also 18G05]

Vasconcelos, Wolmer V. Flatness testing and torsionfree morphisms. (English summary) **98i:13013**

Items with secondary classifications in 13C11

Al Thani, Nada M. Pure Baer injective modules. (English summary) **98f:16004**
Dobbs, David E. On flat divided prime ideals. **98h:13021**
Heinzer, William (*with* Rotthaus, Christel; Wiegand, Sylvia) Idealwise algebraic independence for elements of the completion of a local domain. **98b:13021**
Khashyarmanesh, K. (*with* Salarian, Sh.) Minimal injective resolutions of modules over Cohen-Macaulay rings. **98j:13020**
Mijbass, Ali S. *see* **Naoum, Adil G., 98i:13012**
Naoum, Adil G. (*with* Mijbass, Ali S.) Weak cancellation modules. **98i:13012**
Rotthaus, Christel *see* **Heinzer, William; et al., 98b:13021**
Salarian, Sh. *see* **Khashyarmanesh, K., 98j:13020**
Wang, Ming Yi (*with* Yu, Zeng Hai) Embedding problems for modules. (Chinese. Chinese summary) **98f:13008**
Wiegand, Sylvia *see* **Heinzer, William; et al., 98b:13021**
Xu, Jinzhong ★ Flat covers of modules. **98b:16003**
Yu, Zeng Hai *see* **Wang, Ming Yi, 98f:13008**

13C12 Torsion modules and ideals

Cho, Yong-Hwan On multiplication modules. I. **98f:13009**
Fuchs, László[1] (*with* Lee, Sang Bum[1]) Primary decompositions of torsion modules over domains. **98h:13010**
Lee, Sang Bum[1] *see* **Fuchs, László[1], 98h:13010**

Items with secondary classifications in 13C12

Eklof, Paul C. (*with* Zimmermann-Huisgen, Birge; Shelah, Saharon) Torsion modules, lattices and p-points. (English summary) **98m:16037**
Escoriza, José (*with* Torrecillas Jover, Blas) Relative multiplication and distributive modules. (English summary) **98c:13016**
Shelah, Saharon *see* **Eklof, Paul C.; et al., 98m:16037**
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13C13 Other special types

Dugas, Manfred (*with* Göbel, Rüdiger) Classification of modules with two distinguished pure submodules and bounded quotients. (English summary) **98a:13018**
El Bashir, Robert (*with* Kepka, Tomáš) On when commutative Noetherian rings are slender. (English summary) **98h:13011**
Escoriza, José (*with* Torrecillas Jover, Blas) Relative multiplication and distributive modules. (English summary) **98c:13016**
Göbel, Rüdiger *see* **Dugas, Manfred, 98a:13018**
Hu, Lei *see* **Liu, Mulan, (98e:05001)**
Johnson, E. W. (*with* Johnson, Johnny A.; Taylor, Monty B.) Modules with small cofinite irreducibles, cyclic submodules and duality. (English summary) **98c:13017**
Johnson, Johnny A. *see* **Johnson, E. W.; et al., 98c:13017**
Kepka, Tomáš *see* **El Bashir, Robert, 98h:13011**
Liu, Mulan (*with* Hu, Lei) Modules of linear recurring arrays over finite fields. (English summary) (*see* **98e:05001**)
Marcelo Vega, Agustín (*with* Muñoz Masqué, J.) Prime submodules, the descent invariant, and modules of finite length. **98d:13009**
Marcelo Wirnitzer, Félix (*with* Rodríguez Mielgo, César) Characterizations of 0-submodules. (English summary)
McCasland, R. L. (*with* Moore, M. E.; Smith, Patrick F.) Modules with finitely generated spectra. (English summary) **98d:13010**
Melkersson, Leif Small cofinite irreducibles. (English summary) **98i:13014**
Moore, M. E. *see* **McCasland, R. L.; et al., 98d:13010**
Morariu, Wanda On the embedded primary components of submodules. **98g:13008**
Muñoz Masqué, J. *see* **Marcelo Vega, Agustín, 98d:13009**
Richman, Fred (*with* Walker, Elbert Abner) Filtered modules over discrete valuation domains. (English summary) **98k:13011**
Rodríguez Mielgo, César *see* **Marcelo Wirnitzer, Félix**
Smith, Patrick F. *see* **McCasland, R. L.; et al., 98d:13010**
Taylor, Monty B. *see* **Johnson, E. W.; et al., 98c:13017**
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Walker, Elbert Abner *see* **Richman, Fred, 98k:13011**

Items with secondary classifications in 13C13

Chung, Sang-Cho (*with* Lee, Dong Soo) Asymptotic sequences and generalized fractions. **98c:13014**
Dugas, Manfred (*with* Göbel, Rüdiger; May, Warren Lee[2]) Free modules with two distinguished submodules. (English summary) **98h:13009**
Faith, Carl (*with* Herbera, Dolors) Endomorphism rings and tensor products of linearly compact modules. **98b:16026**
Göbel, Rüdiger *see* **Dugas, Manfred; et al., 98h:13009**
Herbera, Dolors *see* **Faith, Carl, 98b:16026**
Lee, Dong Soo *see* **Chung, Sang-Cho, 98c:13014**
Man, Shing Hing On commutative Noetherian rings which have the s.p.a.r. property. (English summary) **98k:13021**
May, Warren Lee[2] *see* **Dugas, Manfred; et al., 98h:13009**
Miller, Claudia Complexity of tensor products of modules and a theorem of Huneke-Wiegand. (English summary) **98c:13022**
Visweswaran, S. Some results on modules satisfying (C). (English summary) **98d:13020**

13C14 Cohen-Macaulay modules [see also 13H10]

Enescu, Florian (*with* Pfister, Gerhard; Popescu, Dorin) Infinitesimal module deformations in the Thom-Sebastiani problem. (English summary) **98i:13015**
Herzog, Jürgen (*with* Popescu, Dorin) Thom-Sebastiani problems for maximal Cohen-Macaulay modules. **98k:13012**
Pfister, Gerhard (*with* Popescu, Dorin) Deformations of maximal Cohen-Macaulay modules. **98h:13012**
— *see also* **Enescu, Florian; et al., 98i:13015**
Popescu, Dorin *see* **Pfister, Gerhard, 98h:13012**; **Enescu, Florian; et al., 98i:13015** *and* **Herzog, Jürgen, 98k:13012**
Yoshida, Ken-ichi[2] Tensor products of perfect modules and maximal surjective Buchsbaum modules. (English summary) **98m:13017**
Zhou, Cai Jun Toward a theory of weak *I* sequences. (English summary) **98i:13016**

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Bernstein, Joseph (*with* Braverman, Alexander; Gaitsgory, Dennis) The Cohen-Macaulay property of the category of $(\mathfrak{g}, K)$-modules. (English summary) **98k:20073**
Braverman, Alexander *see* **Bernstein, Joseph; et al., 98k:20073**
Drozd, Yu. A. (*with* Greuel, Gert-Martin) Semicontinuity for representations of one-dimensional Cohen-Macaulay rings. **98a:16019**
Gaitsgory, Dennis *see* **Bernstein, Joseph; et al., 98k:20073**
Greuel, Gert-Martin *see* **Drozd, Yu. A., 98a:16019**
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13F45 Seminormal rings

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13F50 Rings with straightening laws, Hodge algebras

Nițu, Bogdan Ideals defining algebras with straightening laws. **98e:13023**

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— (*with* Hibi, Takayuki) Computation of Betti numbers of monomial ideals associated with stacked polytopes. (English summary) **98b:13013**
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— (*with* Hyry, Eero; Korb, T.) On Rees algebras with a Gorenstein Veronese subring. **98m:13006**
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— *see also* **Goto, Shiro; et al., 98a:13008**
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13H15 Multiplicity theory and related topics

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Huneke, Craig (*with* Trivedi, Vijaylaxmi) The height of ideals and regular sequences. (English summary) **98i:13018**
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13Jxx Topological rings and modules [see also 16W60, 16W80]

13J05 Power series rings [see also 13F25]

Reich, Ludwig On the local distribution of formal power series transformations in several variables with respect to embeddability. **98d:13028**
Tu, Li Huang A property of rings of convergent power series. (Chinese. English and Chinese summaries)

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Lazraq Khlass, A. (*with* Oudadess, Mohamed) Structure des algèbres de valuation discrete. (English summary) [Structure of discrete valuation algebras] **98m:46099**
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13J10 Complete rings, completion [see also 13B35]

Heinzer, William (*with* Rotthaus, Christel; Wiegand, Sylvia) Idealwise algebraic independence for elements of the completion of a local domain. **98b:13021**
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13J15 Henselian rings [see also 13B40]

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13J20 Global topological rings

Tabaâ, Mohamed Une note sur les topologies linéaires. [A note on linear topologies] **98g:13028**

13J25 Ordered rings [see also 06F25]

McEnerney, James (*with* Stengle, Gilbert) The nonreduced order spectrum of a commutative ring. (English summary) **98j:13023**
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Andradas, Carlos (*with* Bröcker, Ludwig; Ruiz, Jesús M.) ★ Constructible sets in real geometry. **98e:14056**
Bröcker, Ludwig *see* **Andradas, Carlos; et al., 98e:14056**
Leung, Ka Hin (*with* Marshall, Murray A.; Zhang, Yu Fei[2]) The real spectrum of a noncommutative ring. **98j:16028**
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Zhang, Yu Fei[2] *see* **Leung, Ka Hin; et al., 98j:16028**

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Prolla, João B. (*with* Verdoodt, Ann) Uniform approximation of functions with values in topological rings. (English summary) **98e:46096**
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13K05 Witt vectors and related rings

Harder, G. Wittvektoren. [Witt vectors] **98e:13025**
Roberts, Leslie G. The ring of Witt vectors. **98i:13048**

Items with secondary classifications in 13K05

Hesselholt, Lars Witt vectors of non-commutative rings and topological cyclic homology. **98h:19003**
Peterson, Chariya P. (*with* Yagita, Nobuaki) Rational cohomology of Witt groups. **98c:20089**
Xie, Ting Fan (*with* Zhou, Song Ping) On a sequence of Witt vectors. (English and Chinese summaries) **98f:11023**
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13L05 Applications of logic to commutative algebra [see also 03Cxx, 03Hxx]

13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx.}

13M10 Polynomials (commutative rings)

Items with secondary classifications in 13M10

Chu, W. M. Construction of irreducible polynomials using cubic transformation. (English summary) **98i:11103a**
— *see also* **Scheerhorn, A., 98i:11103b**
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13Nxx Differential algebra [see also 12H05, 14F10]

13N05 Modules of differentials [see also 16S32]

Berger, Robert W. Prefinite differential modules. **98c:13032**
Eisenbud, David (*with* Mazur, Barry C.) Evolutions, symbolic squares, and Fitting ideals. (English summary) **98h:13035**
Mazur, Barry C. *see* **Eisenbud, David, 98h:13035**
Roberts, Leslie G. Kähler differentials of certain cusps. (English summary) **98h:13036**

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Höbl, Reinhold (*with* Sun, Xiaotao) On the cohomology of regular differential forms and dualizing sheaves. (English summary) **98k:14021**
Li Marzi, Enzo Maria Some questions on derivations of a ring with a universal finite module of differentials. (English summary) **98b:13004**
Mulero Díaz, Ma. Ángeles Rings of continuous functions and the branch set of a covering. (English summary) **98h:54024**
de Smit, Bart A differential criterion for complete intersections. (English summary) **98i:13019**
— The different and differentials of local fields with imperfect residue fields. (English summary) **98d:11148**
Sun, Xiaotao *see* **Höbl, Reinhold, 98k:14021**
Uchibori, Tomio On residue free differential forms of an algebraic scheme over a field of characteristic p. (English summary) **98h:14024**
Vetter, Udo (*with* Warneke, Klaus) Differentials of a symmetric generic determinantal singularity. (English summary) **98g:13009**
Warneke, Klaus *see* **Vetter, Udo, 98g:13009**

13N10 Rings of differential operators [see also 16S32, 32C38]

Adolphson, Alan (*with* Sperber, Steven) Differential modules defined by systems of equations. **98h:13037**
Sperber, Steven *see* **Adolphson, Alan, 98h:13037**

Items with secondary classifications in 13N10

Braverman, Alexander (*with* Etingof, Pavel; Gaitsgory, Dennis) Quantum integrable systems and differential Galois theory. (English summary) **98g:58070**
Carra' Ferro, G. Differential Gröbner bases in one variable and in the partial case. (English summary) **98h:12007**
Etingof, Pavel *see* **Braverman, Alexander; et al., 98g:58070**
Gaitsgory, Dennis *see* **Braverman, Alexander; et al., 98g:58070**
Ito, Masahiko *see* **Kita, Michitake, 98c:33017**
Kita, Michitake (*with* Ito, Masahiko) On the rank of the hypergeometric system $E(n+1, m+1; \alpha)$. **98c:33017**

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Smith, Karen E. Tight closure in graded rings. **98e:13009**
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13N99 None of the above, but in this section

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Keigher, William F. On the ring of Hurwitz series. (English summary) **98e:13022**

13Pxx Computational aspects of commutative algebra [see also 68Q40]

13P05 Polynomials, factorization [see also 12Y05]

Gianni, P. (*with* Trager, B.) Square-free algorithms in positive characteristic. (English summary) **98j:13024**
Kalkbrener, Michael An upper bound on the number of monomials in determinants of sparse matrices with symbolic entries. (English summary) **98d:13029**
Lakshman, Y. N. (*with* Saunders, B. David) Sparse shifts for univariate polynomials. (English summary) **98h:13038**
Saunders, B. David *see* **Lakshman, Y. N., 98h:13038**
Trager, B. *see* **Gianni, P., 98j:13024**
Zannier, Umberto On the reduction modulo p of an absolutely irreducible polynomial $f(x, y)$. (English summary) **98f:13026**

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Collins, George E. (*with* Encarnación, Mark J.) Improved techniques for factoring univariate polynomials. (English summary) **98b:68088**
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Jouanolou, J. P. Formes d'inertie et résultant: un formulaire. [Inertial forms and resultant: some formulas] **98k:14002**
Lagarias, Jeffrey C. (*with* Richardson, Thomas J.) Multivariate Descartes rule of signs and Sturmfels's challenge problem. **98i:14054**
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13P10 Polynomial ideals, Gröbner bases

Adams, W. W. (*with* Loustaunau, P.) Gröbner bases and primary decomposition in polynomial rings in one variable over Dedekind domains. (English summary) **98i:13049**
Amrhein, Beatrice (*with* Gloor, Oliver; Küchlin, Wolfgang) On the walk. (English summary) **98i:13050**
Becker, Eberhard (*with* Grobe, Rudolf; Niermann, Michael) Radicals of binomial ideals. (English summary) **98k:13029**
Buchberger, Bruno Introduction to Groebner bases. (English summary) **98m:13032**
Capani, A. (*with* De Dominicis, G.; Niesi, G.; Robbiano, Lorenzo) Computing minimal finite free resolutions. (English summary) **98e:13026**
Cho, Young Hyun (*with* Chung, Jae Myung) Application of Gröbner bases to some rational curves. (English summary)
Chung, Jae Myung *see* **Cho, Young Hyun**
Collart, Stéphane (*with* Mall, Daniel) A combinatorial result on Gröbner fans with an application to universal Gröbner bases. (English summary) **98j:13025**
— (*with* Kalkbrener, Michael; Mall, Daniel) Converting bases with the Gröbner walk. (English summary) (*see* **98f:68006**)
Conca, Aldo Gröbner bases of powers of ideals of maximal minors. (English summary) **98j:13026**
Cox, David A. Introduction to Gröbner bases. (English summary) **98m:13033**
De Dominicis, G. *see* **Capani, A.; et al., 98e:13026**
Fabiano, A. (*with* Pucci, Gemma; Yger, Alain) Effective Nullstellensatz and geometric degree for zero-dimensional ideals. **98j:13027**
Feng, Guo Chen *see* **Zhang, Chuan Lin**
Fitzpatrick, Patrick Solving a multivariable congruence by change of term order. (English summary) **98k:13030**
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Gräbe, Hans-Gert Minimal primary decomposition and factorized Gröbner bases. (English summary) **98k:13031**
Grassmann, Hubert (*with* Greuel, Gert-Martin; Martin, Bernd; Neumann, W.; Pfister, Gerhard; Pohl, W.; Schönemann, H.; Siebert, Thomas) On an implementation of standard bases and syzygies in SINGULAR. (English summary) **98i:13051**
Greuel, Gert-Martin *see* **Grassmann, Hubert; et al., 98i:13051**
Grigor'ev, D. Yu. Testing the shift-equivalence of polynomials using quantum machines. (English summary) **98a:13037**
Grobe, Rudolf *see* **Becker, Eberhard; et al., 98k:13029**
Kalkbrener, Michael Implicitization by Gröbner basis conversion. **98c:13033**
— On the stability of Gröbner bases under specializations. (English summary) **98i:13052**
— *see also* **Collart, Stéphane; et al., (98f:68006)**
Krick, T. (*with* Sabia, J., Solernó, Pablo) On intrinsic bounds in the Nullstellensatz. (English summary) **98g:13030**
Küchlin, Wolfgang *see* **Amrhein, Beatrice; et al., 98i:13050**
Laubenbacher, Reinhard C. (*with* Woodburn, Cynthia J.) An algorithm for the Quillen-Suslin theorem for monoid rings. (English summary) **98f:13027**
Li, Lian *see* **Wu, Jin Zhao, 98f:13028**
Loustaunau, P. *see* **Adams, W. W., 98i:13049**
Mall, Daniel Covers and fans of polynomial ideals. (English summary) **98j:13028**
— *see also* **Collart, Stéphane, 98j:13025** *and* **(98f:68006)**
Martin, Bernd *see* **Grassmann, Hubert; et al., 98i:13051**
Neumann, W. *see* **Grassmann, Hubert; et al., 98i:13051**
Niermann, Michael *see* **Becker, Eberhard; et al., 98k:13029**
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Pfister, Gerhard *see* **Grassmann, Hubert; et al., 98i:13051**
Pohl, W. *see* **Grassmann, Hubert; et al., 98i:13051**
Pucci, Gemma *see* **Fabiano, A.; et al., 98j:13027**
Robbiano, Lorenzo (*with* Sweedler, Moss) Ideal and subalgebra coefficients. (English summary) **98j:13029**
— *see also* **Capani, A.; et al., 98e:13026**
Sabia, J. *see* **Krick, T.; et al., 98g:13030**
Schiffels, Gerhard Orderings and algorithms in commutative algebra. **98i:13053**
Schönemann, H. *see* **Grassmann, Hubert; et al., 98i:13051**
Shimoyama, Takeshi (*with* Yokoyama, Kazuhiro) Localization and primary decomposition of polynomial ideals. (English summary) **98a:13038**
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Traverso, Carlo Hilbert functions and the Buchberger algorithm. (English summary) **98i:13054**
Wang, Ming Sheng[2] Affine algebra membership and its application. (English and Chinese summaries) **98b:13023**
Woodburn, Cynthia J. *see* **Laubenbacher, Reinhard C., 98f:13027**
Wu, Jin Zhao (*with* Li, Lian) A method for decomposing zero-dimensional algebraic varieties and its applications. (English and Chinese summaries) **98f:13028**
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Zhang, Chuan Lin (*with* Feng, Guo Chen) Duals of spaces of polynomials and their application to interpolation in several variables. (Chinese. English and Chinese summaries)

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Agnarsson, Geir The number of outside corners of monomial ideals. (English summary) **98k:13024**
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Aramova, Annetta (*with* Herzog, Jürgen; Hibi, Takayuki) Gotzmann theorems for exterior algebras and combinatorics. **98c:13025**
Armendáriz, Inés (*with* Solernó, Pablo) On the computation of the radical of polynomial complete intersection ideals. (English summary) **98b:68085**
Åström, Kalle *see* **Heyden, Anders, 98d:14078**
Baur, Walter Simplified lower bounds for polynomials with algebraic coefficients. (English summary) **98c:14046**
Berry, Thomas G. Parameterization of algebraic space curves. (English summary) **98f:14023**
Bueso, José L. (*with* Castro-Jiménez, F. J.; Jara, Pascual) Effective computation of the Gelfand-Kirillov dimension. (English summary) **98c:16027**
Bündgen, Reinhard Buchberger's algorithm: the term rewriter's point of view. (English summary) **98g:68074**
Castro-Jiménez, F. J. *see* **Bueso, José L.; et al., 98c:16027**
Conti, Pasqualina (*with* Traverso, Carlo) A case of automatic theorem proving in Euclidean geometry: the Maclane 8_3 theorem. (English summary) **98a:51022**
De Negri, Emanuela Pfaffian ideals of ladders. (English summary) **98m:13030**
Eisenbud, David (*with* Peeva, Irena; Sturmfels, Bernd) Non-commutative Gröbner bases for commutative algebras. (English summary) **98e:16024**
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Gerdt, Vladimir Gröbner bases and involutive methods for algebraic and differential equations. (English summary) **98d:35010**
Gräbe, Hans-Gert Triangular systems and factorized Gröbner bases. (English summary) **98g:68072**
Greuel, Gert-Martin Description of SINGULAR: a computer algebra system for singularity theory, algebraic geometry and commutative algebra. (English summary) **98d:13001**
Herzog, Jürgen *see* **Aramova, Annetta; et al., 98c:13025**
Heyden, Anders (*with* Åström, Kalle) Algebraic properties of multilinear constraints. (English summary) **98d:14078**
Hibi, Takayuki *see* **Aramova, Annetta; et al., 98c:13025**
Hong, Hoon Subresultants under composition. (English summary) **98d:68112**
Iarrobino, A. Inverse system of a symbolic power. III. Thin algebras and fat points. (English summary) **98k:13017**
Jara, Pascual *see* **Bueso, José L.; et al., 98c:16027**
Koiran, Pascal Hilbert's Nullstellensatz is in the polynomial hierarchy. (English summary) **98e:68109**
Koppenhagen, Ulla (*with* Mayr, Ernst W.) Optimal Gröbner base algorithms for binomial ideals. (English summary) (*see* **98d:68011**)
Lickteig, Thomas (*with* Roy, Marie-Françoise) Semi-algebraic complexity of quotients and sign determination of remainders. (English summary) **98m:68122**
Little, John B. Applications to coding theory. (English summary) **98i:94001**
Loustaunau, P. *see* **Adams, W. W.; et al., 98f:32013**
Madlener, Klaus (*with* Reinert, B.) A generalization of Gröbner basis algorithms to nilpotent group rings. (English summary) **98h:16037**
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— *see also* **Koppenhagen, Ulla**, (**98d:68011**)
Oaku, Toshinori An algorithm of computing b-functions. **98b:32032**
Palamodov, V. P. *see* **Adams, W. W.; et al.**, **98f:32013**
Peeva, Irena *see* **Eisenbud, David; et al.**, **98e:16024**
Reinert, B. *see* **Madlener, Klaus**, **98h:16037**
Rousseau, Christiane (*with* Toni, B.) Local bifurcations of critical periods in the reduced Kukles system. (English summary) **98f:34059**
Roy, Marie-Françoise *see* **Lickteig, Thomas**, **98m:68122**
Solernó, Pablo *see* **Armendáriz, Inés**, **98b:68085**
Sombra, Martin Bounds for the Hilbert function of polynomial ideals and for the degrees in the Nullstellensatz. (English summary) **98i:13032**
Struppa, Daniele C. *see* **Adams, W. W.; et al.**, **98f:32013**
Sturmfels, Bernd (*with* Wiegelmann, Markus) Structural Gröbner basis detection. (English summary) **98c:68105**
— *see also* **Eisenbud, David; et al.**, **98e:16024**
Tan, Lin A geodesic between the Hilbert basis theorem and Gordan's lemma. (English summary) **98m:13028**
Thomas, Rekha R. (*with* Weismantel, Robert) Truncated Gröbner bases for integer programming. (English summary) **98i:90055**
— Applications to integer programming. (English summary) **98i:90056**
Toni, B. *see* **Rousseau, Christiane**, **98f:34059**
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Weismantel, Robert *see* **Thomas, Rekha R.**, **98i:90055**
Wiegelmann, Markus *see* **Sturmfels, Bernd**, **98c:68105**
Wu, Jin Zhao Mechanical geometry theorem proving based on Groebner bases. (English summary) **98a:51023**

13P99 None of the above, but in this section

Albano, Giovannina A parallel algorithm for the conductor of a set of points. (Italian. English and Italian summaries) **98i:13055**
Cioffi, Francesca An observation about the computation of the Hilbert function applied to the conductor of points. (Italian. English and Italian summaries) **98i:13056**
Encarnación, Mark J. The average number of modular factors in Trager's polynomial factorization algorithm. (English summary) (*see* **98h:00039**)
Hu, Lei Product of spaces of doubly periodic arrays. (English summary)
Kondoh, Yuji (*with* Miyoshi, Yoshihiko; Saito, Tomokatsu) An extension of the plotting functions on Risa/Asir. (Japanese. English summary) (*see* **98h:00039**)
Krick, T. (*with* Pardo, Luis Miguel) A computational method for Diophantine approximation. **98h:13039**
Miyoshi, Yoshihiko *see* **Kondoh, Yuji; et al.**, (**98h:00039**)
Ozaki, Yu-ichi (*with* Sasaki, Tateaki) Factor separation of univariate polynomials and its application to multiple root and close root problems. (Japanese. Japanese summary) (*see* **98h:00039**)
Pardo, Luis Miguel *see* **Krick, T.**, **98h:13039**
Saito, Tomokatsu *see* **Kondoh, Yuji; et al.**, (**98h:00039**)
Sasaki, Tateaki *see* **Ozaki, Yu-ichi**, (**98h:00039**) *and* **Tsukada, Yasuhiro**, (**98h:00039**)
Tsukada, Yasuhiro (*with* Sasaki, Tateaki) Efficient factoring of univariate polynomials—utilization of limits on coefficients of individual factors. (Japanese. Japanese summary) (*see* **98h:00039**)
Zhang, Chuan Lin A note on decomposition of multivariate polynomials over the field of rational numbers. (Chinese. English and Chinese summaries) **98j:13030**
Zharkov, A. Yu. Solving zero-dimensional involutive systems. (*see* **97d:14002**)

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Bykov, V. I. (*with* Kytmanov, A. M.; Osetrova, T. A.) Computer algebra of polynomials. A modified method of elimination of unknowns. (Russian)
Colin, Antoine Solving a system of algebraic equations with symmetries. (English summary) **98g:68070**
Derksen, Harm (*with* Kraft, Hanspeter) Constructive invariant theory. (English and French summaries) **98m:13010**
Emiris, Ioannis Z. (*with* Galligo, André; Lombardi, Henri) Certified approximate univariate GCDs. (English summary) **98f:65135**
Feng, Guo Chen (*with* Zhang, Shugong; Zhang, Chuan Lin) The eigenvalue method for computing high-dimensional varieties. **98j:15022**
Galligo, André *see* **Emiris, Ioannis Z.; et al.**, **98f:65135**
González-López, M. J. (*with* Recio, Tomas) On the reality of inverse kinematic ideals. (English summary) **98g:70006**
González-Vega, Laureano (*with* Trujillo, Guadalupe) Using symmetric functions to describe the solution set of a zero-dimensional ideal. **98g:68071**
— Implicitization of parametric curves and surfaces by using multidimensional Newton formulae. (English summary) **98c:14045**
Grigor'ev, D. Yu. Testing shift-equivalence of polynomials by deterministic, probabilistic and quantum machines. (English summary) **98b:68090**
Jacquemard, Alain (*with* Khechichine-Mourtada, F. Z.; Mourtada, Abderaouf) Algorithmes formels appliqués à l'étude de la cyclicité d'un polycycle algébrique générique à quatre sommets hyperboliques. (English and French summaries) [Formal algorithms applied to the study of the cyclicity of a generic algebraic polycycle with four hyperbolic apices] **98b:58142**
Khechichine-Mourtada, F. Z. *see* **Jacquemard, Alain; et al.**, **98b:58142**
Kraft, Hanspeter *see* **Derksen, Harm**, **98m:13010**
Kytmanov, A. M. *see* **Bykov, V. I.; et al.**
Lombardi, Henri *see* **Emiris, Ioannis Z.; et al.**, **98f:65135**
Mourtada, Abderaouf *see* **Jacquemard, Alain; et al.**, **98b:58142**
Osetrova, T. A. *see* **Bykov, V. I.; et al.**
Recio, Tomas *see* **González-López, M. J.**, **98g:70006**
Schiffels, Gerhard Orderings and algorithms in commutative algebra. **98i:13053**
Soriano Arbizu, J. M. On the Bezout theorem. (English summary) **98f:65059**
Trujillo, Guadalupe *see* **González-Vega, Laureano**, **98g:68071**
Zhang, Chuan Lin *see* **Feng, Guo Chen; et al.**, **98j:15022**
Zhang, Shugong *see* **Feng, Guo Chen; et al.**, **98j:15022**

14–XX Algebraic geometry

14–01 Instructional exposition (textbooks, tutorial papers, etc.)

Lipkovski, Aleksandar T. Algebraic geometry (selected topics). **98i:14001**
(Nomizu, Katsumi) *see* **Ueno, Kenji**, **98i:14002**
Ueno, Kenji ★ An introduction to algebraic geometry. (English summary) **98i:14002**

14–02 Research exposition (monographs, survey articles)

Kollár, János ★ Rational curves on algebraic varieties. **98c:14001**
Miyaoka, Yoichi (*with* Peternell, Thomas) ★ Geometry of higher-dimensional algebraic varieties. (English summary) **98g:14001**
(Parshin, A. N.) *see* **Algebraic geometry**, **98i:14003**
Peternell, Thomas *see* **Miyaoka, Yoichi**, **98g:14001**
(Rivin, I.) *see* **Algebraic geometry**, **98i:14003**
(Shafarevich, Igor' Rostislavovich) *see* **Algebraic geometry**, **98i:14003**

Items listed otherwise than by author

Algebraic geometry ★ Algebraic geometry. III. **98i:14003**
Encyclopaedia of Mathematical Sciences ★ Algebraic geometry. III. **98i:14003**

14–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 14–03

Aroca Hernández-Ros, José M. From enumerative geometry to algebraic geometry. (Spanish) **98g:01036**
Castelnuovo, Emma Federigo Enriques and Guido Castelnuovo. (Italian)
(Castelnuovo, Guido) *see* **Castelnuovo, Emma**
(Enriques, Federigo) *see* **Castelnuovo, Emma**
Poincaré, Henri ★ Œuvres. Tome VI. (French) [Works. Vol. VI] **98m:01041**
Rossi, Michele Evolution of the Hodge conjectures. (Italian. English summary) **98a:14014**

Items listed otherwise than by author

Collected Works:
  Poincaré, Henri *see* **Poincaré, Henri**, **98m:01041**

14–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 14–04

Greuel, Gert-Martin Description of SINGULAR: a computer algebra system for singularity theory, algebraic geometry and commutative algebra. (English summary) **98d:13001**
McCune, William (*with* Padmanabhan, R.) ★ Automated deduction in equational logic and cubic curves. **98m:68238**
Padmanabhan, R. *see* **McCune, William**, **98m:68238**

14–06 Proceedings, conferences, collections, etc.

(Alonso, M. E.) *see* **Real algebraic and analytic geometry**, **98g:14002**
(Andradas, Carlos) *see* **Real algebraic and analytic geometry**, **98g:14002**
(Andreatta, Marco) *see* **Higher-dimensional complex varieties**, **98c:14002**
(Gamboa, J. M.) *see* **Real algebraic and analytic geometry**, **98g:14002**
(Grothendieck, Alexander) *see* **Geometric Galois actions**, **98e:14003**
(Il'ina, G. V.) *see* **Algebraic geometry**, **98e:14002**
(Kollár, János) *see* **Algebraic geometry, Santa Cruz, 1995**, **98h:14002** *and* **98h:14003**
(Krasnopolina, E. I.) *see* **Algebraic geometry**, **98h:14001**
Kumar, Shrawan (*with* Laumon, Gérard; Stuhler, Ulrich) ★ Vector bundles on curves—new directions. **98i:14004**
Laumon, Gérard *see* **Kumar, Shrawan; et al.**, **98i:14004**
(Lazarsfeld, Robert) *see* **Algebraic geometry, Santa Cruz, 1995**, **98h:14002** *and* **98h:14003**
(Lochak, Pierre) *see* **Geometric Galois actions**, **98e:14003**
(Morrison, David R.) *see* **Algebraic geometry, Santa Cruz, 1995**, **98h:14002** *and* **98h:14003**
(Narasimhan, M. S.) *see* **Kumar, Shrawan; et al.**, **98i:14004**
(Peternell, Thomas) *see* **Higher-dimensional complex varieties**, **98c:14002**
(Pragacz, Piotr) *see* **Parameter spaces**, **98f:14001**
(Recio, Tomas) *see* **Real algebraic and analytic geometry**, **98g:14002**
(Ruiz, Jesús M.) *see* **Real algebraic and analytic geometry**, **98g:14002**
(Schneps, Leila) *see* **Geometric Galois actions**, **98e:14003**
(Sertöz, A. Sinan) *see* **Algebraic geometry**, **98e:14001**
Stuhler, Ulrich *see* **Kumar, Shrawan; et al.**, **98i:14004**

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Algebraic geometry ★ Algebraic geometry. **98e:14001**
— ★ Algebraic geometry. 2. **98e:14002**
— ★ Algebraic geometry. 2. **98h:14001**
Algebraic geometry, Santa Cruz, 1995 ★ Algebraic geometry—Santa Cruz 1995. **98h:14002**
— ★ Algebraic geometry—Santa Cruz 1995. **98h:14003**
Ankara ★ Algebraic geometry. **98e:14001**
Conference:
  Parameter Spaces; Enumerative Geometry, Algebra and Combinatorics ★ Parameter spaces. **98f:14001**
Geometric Galois actions ★ Geometric Galois actions. 1. **98e:14003**
Higher-dimensional complex varieties ★ Higher-dimensional complex varieties. **98c:14002**
Meeting:
  Real Algebraic and Analytic Geometry ★ Real algebraic and analytic geometry. **98g:14002**
Parameter spaces ★ Parameter spaces. **98f:14001**
Proceedings of Symposia in Pure Mathematics ★ Algebraic geometry—Santa Cruz 1995. **98h:14002**
— ★ Algebraic geometry—Santa Cruz 1995. **98h:14003**
Real algebraic and analytic geometry ★ Real algebraic and analytic geometry. **98g:14002**
Research Institute:
  Algebraic Geometry ★ Algebraic geometry—Santa Cruz 1995. **98h:14002**
  — ★ Algebraic geometry—Santa Cruz 1995. **98h:14003**
Santa Cruz, CA ★ Algebraic geometry—Santa Cruz 1995. **98h:14002**
— ★ Algebraic geometry—Santa Cruz 1995. **98h:14003**
School:
  Algebraic Geometry ★ Algebraic geometry. **98e:14001**
School-Conference:
  Higher-dimensional Complex Geometry ★ Higher-dimensional complex varieties. **98c:14002**
Segovia ★ Real algebraic and analytic geometry. **98g:14002**
Trento ★ Higher-dimensional complex varieties. **98c:14002**
Warsaw ★ Parameter spaces. **98f:14001**

Items with secondary classifications in 14–06

(Ancona, V.) *see* **Complex analysis and geometry**, **98f:32002**
(Arslanov, Marat) *see* **Algebra and analysis**, **98b:00020**
(Ballico, Edoardo) *see* **Complex analysis and geometry**, **98f:32002**
(Catanese, Fabrizio) *see* **Arithmetic geometry**, **98d:11003**
(Chebotarev, N. G.) *see* **Algebra and analysis**, **98b:00020**
(Chow, Wei-Liang) *see* **Birational algebraic geometry**, **98b:00037**
(Igusa, Jun-ichi) *see* **Algebraic analysis, geometry, and number theory**, **98d:00013**
(Kawamata, Yujiro) *see* **Birational algebraic geometry**, **98b:00037**
(Libgober, Anatoly) *see* **Singularities and complex geometry**, **98d:32002**
(Lu, Qi-Keng) *see* **Singularities and complex geometry**, **98d:32002**
(Mirò-Roig, Rosa Maria) *see* **Complex analysis and geometry**, **98f:32002**
(Parshin, A. N.) *see* **Algebra and analysis**, **98b:00020**
(Shafarevich, Igor' Rostislavovich) *see* **Algebra and analysis**, **98b:00020**
(Shokurov, Vyacheslav V.) *see* **Birational algebraic geometry**, **98b:00037**
(Silva, Alessandro) *see* **Complex analysis and geometry**, **98f:32002**
(Yau, Stephen S.-T.) *see* **Singularities and complex geometry**, **98d:32002**

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Algebra and analysis ★ Algebra and analysis. **98b:00020**
Algebraic analysis, geometry, and number theory ★ Algebraic analysis, geometry, and number theory. **98d:00013**
Anniversary:
  Birth of Chebotarëv, Nikolaĭ Grigor'evich ★ Algebra and analysis. **98b:00020**
Arithmetic geometry ★ Arithmetic geometry. **98d:11003**
Baltimore, MD ★ Algebraic analysis, geometry, and number theory. **98d:00013**
— ★ Birational algebraic geometry. **98b:00037**
Beijing ★ Singularities and complex geometry. **98d:32002**
Birational algebraic geometry ★ Birational algebraic geometry. **98b:00037**
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Conference:
  Algebra and Analysis ★ Algebra and analysis. **98b:00020**
  Algebraic Analysis, Geometry, and Number Theory ★ Algebraic analysis, geometry, and number theory. **98d:00013**
  Birational Algebraic Geometry ★ Birational algebraic geometry. **98b:00037**
  Complex Analysis and Geometry ★ Complex analysis and geometry. **98f:32002**
  Vector Bundles on Fano Threefolds ★ Complex analysis and geometry. **98f:32002**
Contemporary Mathematics ★ Birational algebraic geometry. **98b:00037**
Cortona ★ Arithmetic geometry. **98d:11003**
Kazan ★ Algebra and analysis. **98b:00020**
Memorial Volume:
  Chow, Wei-Liang ★ Birational algebraic geometry. **98b:00037**
Seminar:
  Singularities and Complex Geometry ★ Singularities and complex geometry. **98d:32002**
Singularities and complex geometry ★ Singularities and complex geometry. **98d:32002**
Symposia Mathematica ★ Arithmetic geometry. **98d:11003**
Symposium:
  Arithmetic Geometry ★ Arithmetic geometry. **98d:11003**
Trento ★ Complex analysis and geometry. **98f:32002**

14Axx Foundations

14A05 Relevant commutative algebra [see also 13–XX]

Items with secondary classifications in 14A05

Dichi, Henri (*with* Sangaré, Daouda) Asymptotic closure of filtrations on rings with Krull dimension 1. (English summary) **98k:13023**
van den Essen, Arno (*with* Shpilrain, Vladimir) Some combinatorial questions about polynomial mappings. (English summary) **98g:13007**
Sangaré, Daouda *see* **Dichi, Henri**, **98k:13023**
Shpilrain, Vladimir *see* **van den Essen, Arno**, **98g:13007**

14A10 Varieties

Nobile, Augusto (*with* Villamayor U., Orlando E.) Equisingular stratifications associated to families of planar ideals. **98i:14005**

Villamayor U., Orlando E. *see* **Nobile, Augusto, 98i:14005**

Items with secondary classifications in 14A10

Borisovich, A. Yu. (*with* Kucharski, Z.; Marzantowicz, Wacław) Relative Nielsen number and a lower estimate of the number of components of an algebraic set. (Russian summary) **98a:55002**
Kucharski, Z. *see* **Borisovich, A. Yu.; et al., 98a:55002**
Marzantowicz, Wacław *see* **Borisovich, A. Yu.; et al., 98a:55002**
Nowak, Krzysztof Jan Flat morphisms between regular varieties. (English summary) **98b:14013**

14A20 Generalizations (algebraic spaces, motifs)

Moret-Bailly, Laurent Un problème de descente. (English and French summaries) [A descent problem] **98g:14003**

Items with secondary classifications in 14A20

Zhou, Cai Jun Cohen-Macaulay section rings. (English summary) **98b:13020**

14A22 Noncommutative algebraic geometry; algebraic supervarieties [see also 14M30, 32C11, 58A50]

Tsuchimoto, Yoshifumi A Grothendieck topology on a subcategory of opposite category of noncommutative algebras. **98e:14004**
Van Oystaeyen, Freddy (*with* Willaert, Luc) Examples and quantum sections of schematic algebras. (English summary) **98h:14004**
Verschoren, A. (*with* Willaert, Luc) Noncommutative algebraic geometry: from pi-algebras to quantum groups. (English summary) **98k:14001**
Willaert, Luc *see* **Van Oystaeyen, Freddy, 98h:14004** *and* **Verschoren, A., 98k:14001**

Items with secondary classifications in 14A22

Fronsdal, Christian Generalization and exact deformations of quantum groups. (English summary) **98c:16050**
Tate, John (*with* Van den Bergh, Michel) Homological properties of Sklyanin algebras. (English summary) **98c:16057**
Van den Bergh, Michel *see* **Tate, John, 98c:16057**

14A99 None of the above, but in this section

Jouanolou, J. P. Formes d'inertie et résultant: un formulaire. [Inertial forms and resultant: some formulas] **98k:14002**

Items with secondary classifications in 14A99

Plotkin, Boris Some concepts of algebraic geometry in universal algebra. (Russian. Russian summary) **98j:08003**

14Bxx Local theory [see also 32Sxx]

14B05 Singularities [see also 14E15, 14H20, 32Sxx, 58C27]

Borisov, Alexandr Minimal discrepancies of toric singularities. (English summary) **98b:14001**
Gurjar, R. V. A hyperplane section theorem for Milnor numbers. **98h:14005**
Ishii, Shihoko The weighted blowing ups of singularities with $\kappa = 0$. **98g:14004**
Kawamata, Yujiro Divisorial contractions to 3-dimensional terminal quotient singularities. (English summary) **98g:14005**
O'Shea, Donal Computing invariants of hypersurface singularities. **98k:14003**
Roczen, Marko 1-semiquasihomogeneous singularities of hypersurfaces—pathology in characteristic 2. (English summary) **98m:14001**
Rump, Wolfgang Neue Aspekte zur McKay-Korrespondenz. [New aspects on the McKay correspondence] **98b:14002**
Serpico, Maria Ezia An example of cubic hypersurface in $\mathbf{P}_6$ with 35 nodes. (Italian. English and Italian summaries) **98d:14001**

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A'Campo, Norbert (*with* Oka, Mutsuo[1]) Geometry of plane curves via Tschirnhausen resolution tower. **98d:14038**
Blanlœil, Vincent (*with* Michel, Françoise) A theory of cobordism for non-spherical links. (English summary) **98h:57049**
Buligă, M. *see* **Puta, Mircea; et al., 98d:58015**
Damon, James N. Singular Milnor fibers and higher multiplicities. **98f:32040**
D'Anna, Marco The canonical module of a one-dimensional reduced local ring. **98h:13031**
Fourrier, Laurence Topologie d'un polynôme de deux variables complexes au voisinage de l'infini. (English and French summaries) [Topology of a polynomial of two complex variables in a neighborhood of infinity] **98e:32066**
Fu, David Local weak simultaneous resolution for high rational ranks. **98m:13005**
Gusein-Zade, S. M. (*with* Luengo, Ignacio; Melle-Hernández, A.) Partial resolutions and the zeta-function of a singularity. (English summary) **98j:32043**
Hara, Nobuo A characterization of rational singularities in terms of injectivity of Frobenius maps. **98m:13008**
Herzog, Jürgen (*with* Popescu, Dorin) Thom-Sebastiani problems for maximal Cohen-Macaulay modules. **98k:13012**
Hironaka, H. On the presentations of resolution data. **98h:14020**
Ivan, Gheorghe *see* **Puta, Mircea; et al., 98d:58015**
de Jong, Aise Johan Smoothness, semi-stability and alterations. **98e:14011**
Lerche, Wolfgang (*with* Mayr, Peter; Warner, Nicholas) Non-critical strings, del Pezzo singularities and Seiberg-Witten curves. (English summary) **98m:81150**
Luengo, Ignacio *see* **Gusein-Zade, S. M.; et al., 98j:32043**
Markushevich, D. G. Resolution of $\mathbf{C}^3/H_{168}$. **98i:14019**
Martin, Bernd (*with* Siebert, Thomas) Graded Lie algebras and quasihomogeneous complete intersection singularities. **98b:32034**
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Melle-Hernández, A. *see* **Gusein-Zade, S. M.; et al., 98j:32043**
Michel, Françoise *see* **Blanlœil, Vincent, 98h:57049**
Mäuk, Michal An algebraic approach to computing adjoint curves. (English summary) **98f:14049**
(Moh, T. T.) *see* **Hironaka, H., 98h:14020**
Némethi, András Generalized Weil's reciprocity law and multiplicativity theorems. (English summary) **98d:14023**
Oka, Mutsuo[1] Polynomial normal form of a plane curve with a given weight sequence. **98c:14019**
— ★ Non-degenerate complete intersection singularity. (English summary) **98j:32047**
— *see also* **A'Campo, Norbert, 98d:14038**
O'Shea, Donal (*with* Teleman, Constantin) Limiting tangent spaces and a criterion for μ-constancy. **98k:32049**
Popescu, Dorin *see* **Herzog, Jürgen, 98k:13012**
Puta, Mircea (*with* Ivan, Gheorghe; Buligă, M.) ★ Une incursion à la théorie élémentaire des catastrophes. (French) [An excursion into elementary catastrophe theory] **98d:58015**
Roberts, Leslie G. Kähler differentials of certain cusps. (English summary) **98h:13036**
Saito, Kyoji Around the theory of the generalized weight system: relations with singularity theory, the generalized Weyl group and its invariant theory, etc. [MR 88c:32015a; 88c:32015b]. (*see* **98k:00025**)
Siebert, Thomas *see* **Martin, Bernd, 98b:32034**
Stamm, Hellmuth On the reduction of the Hilbert-Blumenthal-moduli scheme with $\Gamma_0(p)$-level structure. (English summary) **98h:14030**
Stevens, Jan On the classification of reducible curve singularities. **98e:14025**
Teleman, Constantin *see* **O'Shea, Donal, 98k:32049**
Villamayor U., Orlando E. Resolution in families. **98k:14017**
Warner, Nicholas *see* **Lerche, Wolfgang; et al., 98m:81150**
Watanabe, Kei-ichi F-rationality of certain Rees algebras and counterexamples to "Boutot's theorem" for F-rational rings. (English summary) **98i:13007**

14B07 Deformations of singularities [see also 14D15, 32Sxx]

Altmann, Klaus The versal deformation of an isolated toric Gorenstein singularity. (English summary) **98g:14006**
Drewes, R. (*with* Stevens, Jan) Deformations of cones over canonical trigonal curves. **98c:14003**
Stevens, Jan *see* **Drewes, R., 98c:14003**

Items with secondary classifications in 14B07

Altmann, Klaus Infinitesimal deformations and obstructions for toric singularities. (English summary) **98j:14008**
Ciliberto, Ciro (*with* Lopez, Angelo Felice; Miranda, Rick) Some remarks on the obstructedness of cones over curves of low genus. **98i:14006**
Dubrovin, B. A. (*with* Zhang, Youjin) Extended affine Weyl groups and Frobenius manifolds. (English summary) **98k:32048**
Herzog, Jürgen (*with* Popescu, Dorin) Thom-Sebastiani problems for maximal Cohen-Macaulay modules. **98k:13012**
Lopez, Angelo Felice *see* **Ciliberto, Ciro; et al., 98i:14006**
Miranda, Rick *see* **Ciliberto, Ciro; et al., 98i:14006**
Miyajima, Kimio A Bogomolov-type smoothness on deformations of quasi-Gorenstein cone singularities of dim ≥ 4. **98g:32062**
Popescu, Dorin *see* **Herzog, Jürgen, 98k:13012**
Zhang, Youjin *see* **Dubrovin, B. A., 98k:32048**

14B10 Infinitesimal methods [see also 13D10]

Mourrain, Bernard Isolated points, duality and residues. (English summary) **98g:14007**

Items with secondary classifications in 14B10

Stevens, Jan On the computation of versal deformations. **98c:32048**

14B12 Local deformation theory, Artin approximation, etc. [see also 13B40, 13D10]

Items with secondary classifications in 14B12

Delfino, Donatella (*with* Swanson, Irena) Integral closure of ideals in excellent local rings. **98a:13014**
Drozd, Yu. A. (*with* Greuel, Gert-Martin) Semicontinuity for representations of one-dimensional Cohen-Macaulay rings. **98a:16019**
Greuel, Gert-Martin *see* **Drozd, Yu. A., 98a:16019**
Gross, Mark The deformation space of Calabi-Yau n-folds with canonical singularities can be obstructed. **98a:14054**
Pernire, Rosa Tjurina number of a generic irreducible curve singularity. **98h:32059**
Swanson, Irena *see* **Delfino, Donatella, 98a:13014**

14B15 Local cohomology [see also 13D45, 32C36]

Smith, Karen E. Fujita's freeness conjecture in terms of local cohomology. **98m:14002**

Items with secondary classifications in 14B15

Alonso Tarrío, Leovigildo (*with* Jeremías López, Ana; Lipman, Joseph) Local homology and cohomology on schemes. (English summary) **98d:14028**
Benson, David John (*with* Greenlees, J. P. C.) Commutative algebra for cohomology rings of classifying spaces of compact Lie groups. (English summary) **98j:57054**

Delfino, Donatella A vanishing theorem for local cohomology modules. (English summary) **98f:13015**
Greenlees, J. P. C. *see* **Benson, David John**, **98j:57054**
Houston, Kevin Image multiple point spaces and rectified homotopical depth. (English summary) **98m:32051**
Huang, I-Chiau Theory of residues on the projective plane. (English summary) **98a:14027**
Jeremías López, Ana *see* **Alonso Tarrío, Leovigildo; et al.**, **98d:14028**
Khashyarmanesh, K. (*with* Salarian, Sh.) Exactness theorem and poor M-cosequences. (English summary) **98k:13019**
Lipman, Joseph *see* **Alonso Tarrío, Leovigildo; et al.**, **98d:14028**
Manetti, Marco Iterated double covers and connected components of moduli spaces. **98h:14045**
Miyazaki, Chikashi (*with* Vogel, Wolfgang) Bounds on cohomology and Castelnuovo-Mumford regularity. **98g:13016**
Oaku, Toshinori Algorithms for b-functions, restrictions, and algebraic local cohomology groups of D-modules. **98d:14031**
Salarian, Sh. *see* **Khashyarmanesh, K.**, **98k:13019**
Vogel, Wolfgang *see* **Miyazaki, Chikashi**, **98g:13016**
Yoshida, Ken-ichi[2] Cofiniteness of local cohomology modules for ideals of dimension one. (English summary) **98j:13014**

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Bădescu, Lucian (*with* Schneider, Michael Hellmut) A criterion for extending meromorphic functions. **98d:14029**
Schneider, Michael Hellmut *see* **Bădescu, Lucian**, **98d:14029**

14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

Ciliberto, Ciro (*with* Lopez, Angelo Felice; Miranda, Rick) Some remarks on the obstructedness of cones over curves of low genus. **98i:14006**
Dalbec, John An algebraic proof of Barlet's join theorem. (English summary) **98a:14001**
Dias, Danielle (*with* Le Barz, Patrick) ★ Configuration spaces over Hilbert schemes and applications. **98j:14001**
Gotzmann, Gerd ★ Der algebraische Teil der ersten Chowgruppe eines Hilbertschemas von Raumkurven. (German) [The algebraic part of the first Chow group of a Hilbert scheme of space curves] **98i:14007**
Guerra, Lucio Linear subvarieties of Cayley-Chow varieties. (Italian summary) **98b:14003**
— A universal property of the Cayley-Chow space of algebraic cycles. **98f:14002**
Kleiman, Steven L. (*with* Lipman, Joseph; Ulrich, Bernd) The multiple-point schemes of a finite curvilinear map of codimension one. (English summary) **98a:14002**
Le Barz, Patrick *see* **Dias, Danielle**, **98j:14001**
Lipman, Joseph *see* **Kleiman, Steven L.; et al.**, **98a:14002**
Lopez, Angelo Felice *see* **Ciliberto, Ciro; et al.**, **98i:14006**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Le schéma de Hilbert des courbes gauches localement Cohen-Macaulay n'est (presque) jamais réduit. (English summary) [The Hilbert scheme of locally Cohen-Macaulay space curves is (almost) never reduced] **98a:14003**
Miranda, Rick *see* **Ciliberto, Ciro; et al.**, **98i:14006**
Nakajima, Hiraku Heisenberg algebra and Hilbert schemes of points on projective surfaces. **98h:14006**
Pardue, K. Deformations of graded modules and connected loci on the Hilbert scheme. (*see* **98c:13003**)
Pedrini, Claudio Finiteness results for Chow groups of varieties over number fields. (English summary) **98j:14002**
Perrin, Daniel *see* **Martin-Deschamps, Mireille**, **98a:14003**
Reeves, Alyson (*with* Stillman, Mike) Smoothness of the lexicographic point. (English summary) **98m:14003**
Shinoda, Ken-ichi Coinvariant algebras of some finite groups. (*see* **98k:00015**)
Stillman, Mike *see* **Reeves, Alyson**, **98m:14003**
Strømme, Stein Arild Elementary introduction to representable functors and Hilbert schemes. **98m:14004**
Tikhomirov, Aleksandr S. The variety of complete pairs of zero-dimensional subschemes of an algebraic surface. (Russian. Russian summary) **98m:14005**
Ulrich, Bernd *see* **Kleiman, Steven L.; et al.**, **98a:14002**

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Dijkgraaf, Robbert (*with* Moore, Gregory W.; Verlinde, Erik; Verlinde, Herman) Elliptic genera of symmetric products and second quantized strings. (English summary) **98g:81191**
Ellingsrud, Geir (*with* Strømme, Stein Arild) An intersection number for the punctual Hilbert scheme of a surface. (English summary) **98h:14007**
Kollár, János ★ Rational curves on algebraic varieties. **98c:14001**
Meurer, Paul The number of rational quartics on Calabi-Yau hypersurfaces in weighted projective space $\mathbf{P}(2, 1^4)$. (English summary) **98a:14070**
Moore, Gregory W. *see* **Dijkgraaf, Robbert; et al.**, **98g:81191**
Nakashima, Tohru Stable vector bundles of degree one on algebraic surfaces. (English summary) **98d:14016**
Nobile, Augusto (*with* Villamayor U., Orlando E.) Equisingular stratifications associated to families of planar ideals. **98i:14005**
Nollet, Scott Subextremal curves. (English summary) **98m:14033**
Strømme, Stein Arild *see* **Ellingsrud, Geir**, **98h:14007**
Verlinde, Erik *see* **Dijkgraaf, Robbert; et al.**, **98g:81191**
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14C10 Equivalence relations

Items with secondary classifications in 14C10

Braun, Robert (*with* Müller-Stach, Stefan) Effective bounds for Nori's connectivity theorem. (English summary) **98g:14060**
Edidin, Dan (*with* Graham, William A.) Characteristic classes in the Chow ring. **98m:14007**
Graham, William A. *see* **Edidin, Dan**, **98m:14007**
Müller-Stach, Stefan *see* **Braun, Robert**, **98g:14060**
Smirnov, Oleg N. Graded associative algebras and Grothendieck standard conjectures. **98h:14009**

14C15 Rational equivalence rings

Edidin, Dan (*with* Graham, William A.) Characteristic classes and quadric bundles. **98a:14004**
Esnault, Hélène (*with* Levine, Marc; Viehweg, Eckart) Chow groups of projective varieties of very small degree. **98d:14002**
Graham, William A. *see* **Edidin, Dan**, **98a:14004**
Kimura, Shun-ichi (*with* Vistoli, Angelo) Chow rings of infinite symmetric products. **98a:14005**
Levine, Marc *see* **Esnault, Hélène; et al.**, **98d:14002**
Lewis, James D. A note on indecomposable motivic cohomology classes. (English summary) **98i:14008**
Rost, Markus Chow groups with coefficients. (English summary) **98a:14006**
Saito, Takeshi (*with* Terasoma, Tomohide) Determinant of period integrals. **98c:14004**
Shi, He The projective characters of algebraic surface. **98a:14007**
Terasoma, Tomohide *see* **Saito, Takeshi**, **98c:14004**
Viehweg, Eckart *see* **Esnault, Hélène; et al.**, **98d:14002**
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Items with secondary classifications in 14C15

Behrend, K. (*with* Fantechi, Barbara) The intrinsic normal cone. (English summary) **98e:14022**
Brion, Michel The push-forward and Todd class of flag bundles. **98h:14059**
Faber, Carel Intersection-theoretical computations on $\overline{\mathcal{M}}_g$. **98j:14033**
Fantechi, Barbara *see* **Behrend, K.**, **98e:14022**
Hwang, Kyubum *see* **Lee, Sichang**
Lee, Sichang (*with* Hwang, Kyubum) Chow groups on complete regular local rings. II. (English summary)
Lewis, James D. A result on cycles algebraically equivalent to zero. **98a:14013**

14C17 Intersection theory

Barbieri Viale, Luca $\mathscr{H}$-cohomologies versus algebraic cycles. (English summary) **98d:14003**
Ellingsrud, Geir (*with* Strømme, Stein Arild) An intersection number for the punctual Hilbert scheme of a surface. (English summary) **98h:14007**
Flenner, Hubert (*with* Vogel, Wolfgang) Limits of joins and intersections. **98k:14004**
— (*with* Manaresi, Mirella) Intersections of projective varieties and generic projections. (English summary) **98c:14005**
Fulton, William Determinantal formulas for orthogonal and symplectic degeneracy loci. (English summary) **98d:14004**
Kaufmann, Ralph Martin The intersection form in $\mathscr{H}^*(\overline{\mathcal{M}}_{0n})$ and the explicit Künneth formula in quantum cohomology. **98c:14006**
Kleiman, Steven L. (*with* Thorup, Anders) Mixed Buchsbaum-Rim multiplicities. (English summary) **98g:14008**
Manaresi, Mirella *see* **Flenner, Hubert**, **98c:14005**
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Items with secondary classifications in 14C17

Dias, Danielle (*with* Le Barz, Patrick) ★ Configuration spaces over Hilbert schemes and applications. **98j:14001**
Eguchi, Tohru (*with* Hori, Kentaro; Xiong, Chuan-Sheng) Quantum cohomology and Virasoro algebra. (English summary) **98j:14035**
Ernström, Lars A Plücker formula for singular projective varieties. (English summary) **98b:14040**
Faber, Carel Intersection-theoretical computations on $\overline{\mathcal{M}}_g$. **98j:14033**
Flenner, Hubert (*with* Ulrich, Bernd; Vogel, Wolfgang) On limits of joins of maximal dimension. **98h:13013**
Fomin, S. V. (*with* Kirillov, Anatol N.) The Yang-Baxter equation, symmetric functions, and Schubert polynomials. (English summary) **98b:05101**
Fulton, William Schubert varieties in flag bundles for the classical groups. (English summary) **98b:14038**
Getzler, E. Intersection theory on $\overline{\mathcal{M}}_{1,4}$ and elliptic Gromov-Witten invariants. (English summary) **98f:14018**
Hori, Kentaro *see* **Eguchi, Tohru; et al.**, **98j:14035**
Kirillov, Anatol N. *see* **Fomin, S. V.**, **98b:05101**
Le Barz, Patrick *see* **Dias, Danielle**, **98j:14001**
Nakashima, Tohru (*with* Takeda, Yuichiro) Chern classes of vector bundles on arithmetic varieties. (English summary) **98a:14037**
Pragacz, Piotr (*with* Ratajski, Jan) Formulas for Lagrangian and orthogonal degeneracy loci; $\tilde{Q}$-polynomial approach. (English summary) **98g:14063**
Ratajski, Jan *see* **Pragacz, Piotr**, **98g:14063**
Sabbah, Claude Classes caractéristiques et théorèmes d'indice: point de vue microlocal. (French summary) [Characteristic classes and index theorems: microlocal point of view] **98g:32019**

Simon, Anne-Marie À propos des conjectures d'intersection. [On the intersection conjectures] **98k:13028**
Takeda, Yuichiro *see* **Nakashima, Tohru, 98a:14037**
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14C20 Divisors, linear systems, invertible sheaves

Angelini, Flavio Ample divisors on the blow up of $\mathbf{P}^3$ at points. (English summary) **98d:14005**
Bădescu, Lucian (*with* Beltrametti, Mauro C.; Francia, Paolo) Positive curves in polarized manifolds. (English summary) **98a:14008**
Bauer, Thomas Seshadri constants of quartic surfaces. **98i:14009**
— (*with* Szemberg, Tomasz) Higher order embeddings of abelian varieties. **98a:14009**
Beltrametti, Mauro C. (*with* Sommese, Andrew J.) On the second adjunction mapping and the very ampleness of the triadjoint bundle. (English summary) **98j:14003**
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de Cataldo, Mark Andrea A. Some adjunction-theoretic properties of codimension two non-singular subvarieties of quadrics. (English summary) **98k:14005**
Coppens, Marc An infinitesimal study of secant space divisors. (English summary) **98d:14006**
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— *see also* **Lazarsfeld, Robert, 98h:14008**
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Fukuda, Shigetaka A base point free theorem of Reid type. (English summary) **98j:14004**
Fukuma, Yoshiaki On polarized 3-folds (X, L) with $g(L) = q(X) + 1$ and $h^0(L) \geq 4$. (English summary) **98k:14006**
— A lower bound for the sectional genus of quasi-polarized surfaces. (English summary) **98c:14007**
van Hoeij, Mark Rational parametrizations of algebraic curves using a canonical divisor. (English summary) **98g:14009**
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Inamdar, S. P. On syzygies of projective varieties. (English summary) **98a:14010**
Kanev, Vasil Special line bundles on curves with involution. **98a:14011**
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Li, Xiu Qin² (*with* Miao, Qiao Yun) An infeasible interior point algorithm for convex quadratic programming problems. (Chinese. English and Chinese summaries)
Lu, Steven Shin-Yi (*with* Miyaoka, Yoichi) Bounding codimension-one subvarieties and a general inequality between Chern numbers. (English summary) **98d:14008**
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Russo, Francesco A local version of some results of Zariski. **98d:14009**
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Tan, Xiao-Jiang On H^0-lemma and projective normality of line bundles on algebraic curves. **98j:14006**

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Alzati, Alberto (*with* Bertolini, Marina; Besana, Gian Mario) Projective normality of varieties of small degree. (English summary) **98j:14053**
Anderson, Greg W. An explicit algebraic representation of the Abel map. **98g:14027**
Andreatta, Marco (*with* Mella, Massimiliano) Contractions on a manifold polarized by an ample vector bundle. (English summary) **98b:14012**
Ballico, Edoardo Spanned vector bundles on algebraic curves and linear series. (English and Italian summaries) **98f:14025**
— (*with* Coppens, Marc) Very ample line bundles on blown-up projective varieties. (English summary) **98k:14019**
Barthel, Gottfried (*with* Brasselet, Jean-Paul; Fieseler, Karl-Heinz; Kaup, Ludger) Diviseurs invariants et homomorphisme de Poincaré de variétés toriques complexes. (English and French summaries) [Invariant divisors and Poincaré homomorphism of complex toric varieties] **98c:14044**
Bertolini, Marina *see* **Alzati, Alberto; et al., 98j:14053**
Besana, Gian Mario *see* **Alzati, Alberto; et al., 98j:14053**
Bonavero, Laurent (*with* Voisin, Claire) Schémas de Fano et variétés de Moishezon. (English and French summaries) [Fano schemes and Moishezon manifolds] **98a:14057**
Brasselet, Jean-Paul *see* **Barthel, Gottfried; et al., 98c:14044**
Coppens, Marc The existence of k-gonal curves possessing exactly two linear systems g^1_k. **98c:14024**
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Damon, James N. Singular Milnor fibers and higher multiplicities. **98f:32040**
Esteves, Eduardo Very ampleness for theta on the compactified Jacobian. **98k:14037**
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Gallego, Francisco Javier (*with* Purnaprajna, B. P.) Normal presentation on elliptic ruled surfaces. **98c:14030**
— (*with* Purnaprajna, B. P.) Higher syzygies of elliptic ruled surfaces. **98c:14031**
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Lanteri, Antonio (*with* Palleschi, Marino; Sommese, Andrew J.) Del Pezzo surfaces as hyperplane sections. **98d:14053**
— (*with* Maeda, Hidetoshi) 2-very ampleness for adjoint bundles of ample and spanned vector bundles on surfaces. **98g:14050**
Lauritzen, Niels (*with* Rao, Aroor Prabhakar) Elementary counterexamples to Kodaira vanishing in prime characteristic. (English summary) **98e:14015**
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Mella, Massimiliano Vector bundles on log terminal varieties. (English summary) **98j:14056**
— *see also* **Andreatta, Marco, 98b:14012**
Nakashima, Tohru Stable vector bundles of degree one on algebraic surfaces. (English summary) **98d:14016**
— Restriction of stable bundles in characteristic p. (English summary) **98g:14051**
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— *see also* **Kato, Takao; et al., 98m:14031**
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Shin, Dong-Kwan Linear system on the Fano threefold. (English summary) **98e:14040**
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14C21 Pencils, nets, webs [see also 53A60]

Hénaut, Alain Tissus linéaires et théorèmes d'algébrisation de type Abel-inverse et Reiss-inverse. (English summary) [Linear webs and algebraization theorems of Abel-inverse and Reiss-inverse type] **98g:14010**
Tan, Sheng-Li On the invariants of base changes of pencils of curves. II. **98b:14004**

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Bauer, Ingrid Irrational pencils on non-compact algebraic manifolds. **98i:14020**
Looijenga, Eduard Cohomology and intersection homology of algebraic varieties. **98e:14019**

14C22 Picard groups

Roan, Shi-shyr Picard groups of hypersurfaces in toric varieties. (English summary) **98f:14003**

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Ballico, Edoardo On the Picard group of the moduli scheme of stable curves in positive characteristic. (English summary) **98i:14028**
Gotzmann, Gerd ★ Der algebraische Teil der ersten Chowgruppe eines Hilbertschemas von Raumkurven. (German) [The algebraic part of the first Chow group of a Hilbert scheme of space curves] **98i:14007**
van Hamel, Joost Real algebraic cycles on complex projective varieties. **98i:14012**
Hein, Georg On the generalized theta divisor. (English summary) **98a:14018**
Kanev, Vasil Special line bundles on curves with involution. **98a:14011**
Kumar, Shrawan (*with* Narasimhan, M. S.) Picard group of the moduli spaces of G-bundles. **98d:14014**
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Narasimhan, M. S. *see* **Kumar, Shrawan, 98d:14014**
Verrill, H. A. Root lattices and pencils of varieties. **98a:14050**
Yang, Jin-Gen Sextic curves with simple singularities. (English summary) **98e:14026**

14C25 Algebraic cycles

Bloch, Spencer J. (*with* Gillet, H.; Soulé, Christophe) Algebraic cycles on degenerate fibers. **98i:14011**
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Esnault, Hélène Recent developments on characteristic classes of flat bundles on complex algebraic manifolds. **98b:14005**
— (*with* Kahn, Bruno; Levine, Marc; Viehweg, Eckart) The Arason invariant and mod 2 algebraic cycles. **98d:14010**
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van Hamel, Joost Real algebraic cycles on complex projective varieties. **98i:14012**
Kahn, Bruno *see* **Esnault, Hélène; et al., 98d:14010**
Karpenko, N. A. Cycles de codimension 2 en produits de variétés de Severi-Brauer. (French summary) [Codimension-two cycles on products of Severi-Brauer varieties] **98d:14011**
Levine, Marc *see* **Esnault, Hélène; et al., 98d:14010**
Lewis, James D. Higher Chow groups and the Hodge-$\mathscr{D}$-conjecture. **98f:14004**
Plümer, Judith Resultants and the algebraicity of the join pairing on Chow varieties. **98e:14005**
Smirnov, Oleg N. Graded associative algebras and Grothendieck standard conjectures. **98h:14009**

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Totaro, Burt Torsion algebraic cycles and complex cobordism. **98a:14012**
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André, Yves[1] Une remarque à propos des cycles de Hodge de type CM. [A remark concerning Hodge cycles of CM type] **98f:14005**
— Pour une théorie inconditionnelle des motifs. [Toward an unconditional theory of motives] **98m:14022**
Bădescu, Lucian (*with* Beltrametti, Mauro C.; Francia, Paolo) Positive curves in polarized manifolds. (English summary) **98a:14008**
Balaji, V. (*with* King, A. D.; Newstead, P. E.) Algebraic cohomology of the moduli space of rank 2 vector bundles on a curve. (English summary) **98c:14009**
Behrend, K. (*with* Manin, Yurii Ivanovich) Stacks of stable maps and Gromov-Witten invariants. **98i:14014**
— Gromov-Witten invariants in algebraic geometry. (English summary) **98i:14015**
Beltrametti, Mauro C. *see* **Bădescu, Lucian; et al., 98a:14008**
Berkovich, Vladimir G. Vanishing cycles for formal schemes. II. **98k:14031**
Brasselet, Jean-Paul Intersection of algebraic cycles. **98a:14033**
Buhler, Joe (*with* Schoen, Chad; Top, Jaap) Cycles, L-functions and triple products of elliptic curves. (English summary) **98j:11049**
Francia, Paolo *see* **Bădescu, Lucian; et al., 98a:14008**
King, A. D. *see* **Balaji, V.; et al., 98c:14009**
Kucharz, Wojciech A characterization of the complex affine line. (English summary) **98b:14025**
Kudla, Stephen S. Algebraic cycles on Shimura varieties of orthogonal type. **98e:11058**
Lichtenbaum, Stephen Quasi-motives of curves. (English summary) **98i:14025**
Mangolte, Frédéric Cycles algébriques sur les surfaces $K3$ réelles. [Algebraic cycles on real $K3$-surfaces] **98f:14046**
Manin, Yurii Ivanovich *see* **Behrend, K., 98i:14014**
Newstead, P. E. *see* **Balaji, V.; et al., 98c:14009**
Rossi, Michele Evolution of the Hodge conjectures. (Italian. English summary) **98a:14014**
Schoen, Chad *see* **Buhler, Joe; et al., 98j:11049**
Top, Jaap *see* **Buhler, Joe; et al., 98j:11049**
Voisin, Claire Variations of Hodge structure and algebraic cycles. **98a:14016**

14C30 Transcendental methods, Hodge theory [see also 14D07, 32G20, 32J25, 32S35], Hodge conjecture

Abdulali, Salman Abelian varieties and the general Hodge conjecture. (English summary) **98m:14008**
André, Yves[1] Une remarque à propos des cycles de Hodge de type CM. [A remark concerning Hodge cycles of CM type] **98f:14005**
Kulikov, Vik. S. (*with* Kurchanov, P. F.) Complex algebraic varieties: periods of integrals and Hodge structures [MR 91k:14010]. (*see* **98i:14003**)
Kurchanov, P. F. *see* **Kulikov, Vik. S., (98i:14003)**
Lewis, James D. A result on cycles algebraically equivalent to zero. **98a:14013**
Matuschke, Andreas A geometric example of non-trivially mixed Hodge structures. (English summary) **98m:14009**
Reznikov, A. G. Rationality of secondary classes. (English summary) **98b:14006**
Rossi, Michele Evolution of the Hodge conjectures. (Italian. English summary) **98a:14014**

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Arapura, Donu Geometry of cohomology support loci for local systems. I. **98m:32043**
Balaji, V. (*with* King, A. D.; Newstead, P. E.) Algebraic cohomology of the moduli space of rank 2 vector bundles on a curve. (English summary) **98c:14009**
Biswas, Indranil Green-Lazarsfeld sets and the logarithmic Dolbeault complex for Higgs line bundles. **98b:14014**
Bloch, Spencer J. (*with* Esnault, Hélène) Algebraic Chern-Simons theory. (English summary) **98i:32050**
Collino, A. Griffiths' infinitesimal invariant and higher K-theory on hyperelliptic Jacobians. **98m:14010**
Esnault, Hélène *see* **Bloch, Spencer J., 98i:32050**
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Lee, Ronnie (*with* Weintraub, Steven H.) The Siegel modular variety of degree two and level four. (English summary) **98j:14031**
Lewis, James D. A note on indecomposable motivic cohomology classes. (English summary) **98i:14008**
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Rapoport, Michael Period domains over finite and local fields. (English summary) **98m:14013**
Soulé, Christophe Classes caractéristiques secondaires des fibrés plats. (French summary) [Secondary characteristic classes of flat bundles] **98i:32048**
Weintraub, Steven H. *see* **Lee, Ronnie, 98j:14031**
Zucker, Steven M. The Cheeger-Simons invariant as a Chern class. **98j:32034**

14C34 Torelli problem [see also 32G20]

Iliev, Atanas The theta divisor of bidegree $(2, 2)$ threefold in $\mathbf{P}^2 \times \mathbf{P}^2$. (English summary) **98k:14007**
Imayoshi, Yoichi (*with* Mabuchi, Toshiki) A Torelli-type theorem for stable curves. **98h:14010**
Mabuchi, Toshiki *see* **Imayoshi, Yoichi, 98h:14010**

14C35 Applications of methods of algebraic K-theory [see also 14F05, 19Exx]

Collino, A. Griffiths' infinitesimal invariant and higher K-theory on hyperelliptic Jacobians. **98m:14010**
Gillet, H. (*with* Soulé, Christophe) Descent, motives and K-theory. **98d:14012**
Kahn, Bruno Applications of weight-two motivic cohomology. (English summary) **98b:14007**
Soulé, Christophe *see* **Gillet, H., 98d:14012**

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Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) Riemann-Roch type theorems for arithmetic schemes with a finite group action. **98e:14006**
Erez, Boas *see* **Chinburg, Ted; et al., 98e:14006**
Esnault, Hélène (*with* Kahn, Bruno; Levine, Marc; Viehweg, Eckart) The Arason invariant and mod 2 algebraic cycles. **98d:14010**
Kahn, Bruno *see* **Esnault, Hélène; et al., 98d:14010**
Levine, Marc *see* **Esnault, Hélène; et al., 98d:14010**
Niziol, Wiesława On the image of p-adic regulators. **98a:14031**
Osipov, D. V. Adelic constructions of direct images of differentials and symbols. (Russian. Russian summary) **98k:11093**
Pappas, Georgios *see* **Chinburg, Ted; et al., 98e:14006**
Pedrini, Claudio Finiteness results for Chow groups of varieties over number fields. (English summary) **98j:14002**
Reznikov, A. G. Rationality of secondary classes. (English summary) **98b:14006**
Rost, Markus Chow groups with coefficients. (English summary) **98a:14006**
Saito, Takeshi (*with* Terasoma, Tomohide) Determinant of period integrals. **98c:14004**
Shimada, Ichiro Picard-Lefschetz theory for the universal coverings of complements to affine hypersurfaces. (English summary) **98b:14008**
Szyjewski, Marek Witt rings of Grassmann varieties. (English summary) **98a:11049**
— On the Witt ring of a relative projective line. **98k:11041**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 98e:14006**
Terasoma, Tomohide *see* **Saito, Takeshi, 98c:14004**
Viehweg, Eckart *see* **Esnault, Hélène; et al., 98d:14010**

14C40 Riemann-Roch theorems [see also 19E20, 19L10]

Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) Riemann-Roch type theorems for arithmetic schemes with a finite group action. **98e:14006**
Erez, Boas *see* **Chinburg, Ted; et al., 98e:14006**
Pappas, Georgios *see* **Chinburg, Ted; et al., 98e:14006**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 98e:14006**

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Barbieri Viale, Luca $\mathscr{H}$-cohomologies versus algebraic cycles. (English summary) **98d:14003**
Brion, Michel (*with* Vergne, Michèle) An equivariant Riemann-Roch theorem for complete, simplicial toric varieties. **98a:14067**
Saito, Takeshi (*with* Terasoma, Tomohide) Determinant of period integrals. **98c:14004**
Terasoma, Tomohide *see* **Saito, Takeshi, 98c:14004**
Vergne, Michèle *see* **Brion, Michel, 98a:14067**

14C99 None of the above, but in this section

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Catalisano, M. V. (*with* Ellia, Philippe; Gimigliano, A.) Fat points on rational normal curves. **98k:13016**
Cho, Young Hyun (*with* Jung, Bae Eun) Some conditions for the uniform position property. **98c:13026**
Ellia, Philippe *see* **Catalisano, M. V.; et al., 98k:13016**
Gimigliano, A. *see* **Catalisano, M. V.; et al., 98k:13016**
Giuffrida, S. (*with* Maggioni, R.; Ragusa, A.) Resolutions of generic points lying on a smooth quadric. (English summary) **98d:13011**
Jung, Bae Eun *see* **Cho, Young Hyun, 98c:13026**
Lam, Ngau On the conjecture of the resolution of a finite set of points in projective space. **98f:13012**
Maggioni, R. *see* **Giuffrida, S.; et al., 98d:13011**
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Zhou, Jianyi Chern classes in bivariant theory definitions of Brasselet and of Sabbah. **98e:32061**

14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)

Maaref, Fayçal Les connexions hypergéométriques et le théorème de linéarité de T. Terasoma. (English and French summaries) [Hypergeometric connections and the linearity theorem of T. Terasoma] **98h:14011**
Noguchi, Masayuki Mirror symmetry of Calabi-Yau manifolds and flat coordinates. (English summary) **98k:14008**
Shimada, Ichiro Picard-Lefschetz theory for the universal coverings of complements to affine hypersurfaces. (English summary) **98b:14008**

Items with secondary classifications in 14D05

Alishahiha, Mohsen On the Picard-Fuchs equations of the SW models. (English summary) **98g:81198**
Avram, A. C. (*with* Derrick, E.; Jančić, D.) On semi-periods. (English summary) **98e:32037**
Bolibrukh, A. A. The Riemann-Hilbert problem and Fuchsian differential equations on the Riemann sphere. **98e:32038**
Derrick, E. *see* **Avram, A. C.; et al., 98e:32037**

Ewen, Holger (*with* Förger, Kristin) Simple calculation of instanton corrections in massive $N = 2$ SU(3) SYM. (English summary) **98j:81329**
Förger, Kristin *see* **Ewen, Holger, 98j:81329**
Isidro, José María[1] (*with* Mukherjee, Avijit; Nunes, João P.; Schnitzer, Howard J.) A new derivation of the Picard-Fuchs equations for effective $N = 2$ super Yang-Mills theories. (English summary) **98g:81207**
Isidro, José María[2] (*with* Mukherjee, Avijit; Nunes, João P.; Schnitzer, Howard J.) On the Picard-Fuchs equations for massive $N = 2$ Seiberg-Witten theories. (English summary) **98j:81334**
— (*with* Mukherjee, Avijit; Nunes, João P.; Schnitzer, Howard J.) A note on the Picard-Fuchs equations for $N = 2$ Seiberg-Witten theories. (English summary) **98m:81181**
Ito, Katsushi Picard-Fuchs equations and prepotential in $N = 2$ supersymmetric G_2 Yang-Mills theory. (English summary) **98h:81118**
Itoyama, Hiroshi (*with* Morozov, A. Yu.) Prepotential and the Seiberg-Witten theory. (English summary) **98h:81119**
Jančić, D. *see* **Avram, A. C.; et al., 98e:32037**
Kimura, Hironobu On rational de Rham cohomology associated with the generalised confluent hypergeometric functions. I. $\mathbf{P}^1$ case. (English summary) **98b:14019**
Looijenga, Eduard Cohomology and intersection homology of algebraic varieties. **98e:14019**
Morozov, A. Yu. *see* **Itoyama, Hiroshi, 98h:81119**
Mukherjee, Avijit *see* **Isidro, José María[1]; et al., 98g:81207; Isidro, José María[2]; et al., 98j:81334** *and* **98m:81181**
Nunes, João P. *see* **Isidro, José María[1]; et al., 98g:81207; Isidro, José María[2]; et al., 98j:81334** *and* **98m:81181**
Schnitzer, Howard J. *see* **Isidro, José María[1]; et al., 98g:81207; Isidro, José María[2]; et al., 98j:81334** *and* **98m:81181**
Suzuki, Hisao Evaluation of periods via fibrations in Seiberg-Witten theories and in type-II string. (English summary) **98k:81280**
Vasil'ev, V. A. Ramification in integral geometry and monodromy of complex links. **98a:32050**
Verrill, H. A. Root lattices and pencils of varieties. **98a:14050**

14D07 Variation of Hodge structures

Deligne, P. Local behavior of Hodge structures at infinity. (English summary) **98a:14015**
Ran, Ziv On the period maps of projective hypersurfaces. (English summary) **98j:14007**
Voisin, Claire Variations of Hodge structure and algebraic cycles. **98a:14016**

Items with secondary classifications in 14D07

Bloch, Spencer J. (*with* Gillet, H.; Soulé, Christophe) Algebraic cycles on degenerate fibers. **98i:14011**
Gillet, H. *see* **Bloch, Spencer J.; et al., 98i:14011**
Jones, Oliver On the geometry of varieties of invertible symmetric and skew-symmetric matrices. (English summary) **98g:14018**
Katzarkov, L. Nilpotent groups and universal coverings of smooth projective varieties. **98g:14015**
Kontsevich, M. L. Mirror symmetry in dimension 3. (English summary) **98a:14055**
Kovács, Sándor J. Relative de Rham complex for non-smooth morphisms. **98f:14014**
Kulikov, Vik. S. (*with* Kurchanov, P. F.) Complex algebraic varieties: periods of integrals and Hodge structures [MR 91k:14010]. (*see* **98i:14003**)
Kurchanov, P. F. *see* **Kulikov, Vik. S., (98i:14003)**
Lewis, James D. Higher Chow groups and the Hodge-$\mathscr{D}$-conjecture. **98f:14004**
Matuschke, Andreas A geometric example of non-trivially mixed Hodge structures. (English summary) **98m:14009**
Morrison, David R. Mathematical aspects of mirror symmetry. **98g:14044**
Soulé, Christophe *see* **Bloch, Spencer J.; et al., 98i:14011**
Tsuboi, Syôji Locally stable holomorphic maps and their application to a global moduli problem for some kinds of analytic and algebraic subvarieties. **98g:32029**
Wildeshaus, Jörg ★ Realizations of polylogarithms. **98j:11045**

14D10 Arithmetic ground fields (finite, local, global)

Items with secondary classifications in 14D10

Katz, Nicholas Correction to: "On the monodromy groups attached to certain families of exponential sums" [Duke Math. J. **54** (1987), no. 1, 41–56; MR 88i:11053].
Kim, Minhyong Geometric height inequalities and the Kodaira-Spencer map. (English summary) **98j:14029**
— On the Kodaira-Spencer map and stability. **98j:14030**

14D15 Formal methods; deformations [see also 13D10, 14B07, 16S80 32Gxx]

Altmann, Klaus Infinitesimal deformations and obstructions for toric singularities. (English summary) **98j:14008**
Kawamata, Yujiro Erratum on: "Unobstructed deformations. A remark on a paper of Z. Ran: 'Deformations of manifolds with torsion or negative canonical bundle' " [J. Algebraic Geom. **1** (1992), no. 2, 183–190; MR 93e:14016]. **98k:14009**
(Ran, Ziv) *see* **Kawamata, Yujiro, 98k:14009**
Summerer, Axel Globale Deformationen der Mannigfaltigkeiten $\mathbf{P}(T_{P_2})$ und $\mathbf{P}_1 \times \mathbf{P}_2$. [Global deformations of manifolds $\mathbf{P}(T_{P_2})$ and $\mathbf{P}_1 \times \mathbf{P}_2$] **98i:14013**
Symms, John On deformations of unions of planes in projective space. **98c:14008**

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Bădescu, Lucian (*with* Beltrametti, Mauro C.; Francia, Paolo) Positive curves in polarized manifolds. (English summary) **98a:14008**
Beltrametti, Mauro C. *see* **Bădescu, Lucian; et al., 98a:14008**
Francia, Paolo *see* **Bădescu, Lucian; et al., 98a:14008**
Greuel, Gert-Martin (*with* Lossen, Christoph) Equianalytic and equisingular families of curves on surfaces. (English summary) **98g:14023**
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McKernan, James Versality for canonical curves and complete intersections. **98g:14024**
Palamodov, V. P. Lie algebras and deformation theory. **98e:32033**
Ran, Ziv Unobstructedness of Calabi-Yau orbi-Kleinfolds. (English summary) **98m:14043**

14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13.}

Aprodu, Marian (*with* Brînzănescu, Vasile) Stable rank-2 vector bundles over ruled surfaces. (English and French summaries) **98j:14009**
Arinkin, D. A. (*with* Lysenko, S. A.) Isomorphisms between moduli spaces of SL(2)-bundles with connections on $\mathbf{P}^1 \setminus \{x_1, \cdots, x_4\}$. **98h:14012**
Balaji, V. (*with* Seshadri, C. S.) Remarks on the moduli space of principal bundles. **98k:14010**
— (*with* King, A. D.; Newstead, P. E.) Algebraic cohomology of the moduli space of rank 2 vector bundles on a curve. (English summary) **98c:14009**
Ballico, Edoardo On the number of components of the moduli schemes of stable torsion-free sheaves on integral curves. (English summary) **98d:14013**
Behrend, K. (*with* Manin, Yurii Ivanovich) Stacks of stable maps and Gromov-Witten invariants. **98i:14014**
— Gromov-Witten invariants in algebraic geometry. (English summary) **98i:14015**
Boden, Hans U. (*with* Yokogawa, Kôji) Moduli spaces of parabolic Higgs bundles and parabolic $K(D)$ pairs over smooth curves. I. (English summary) **98a:14017**
Brambila-Paz, L. (*with* Grzegorczyk, I.; Newstead, P. E.) Geography of Brill-Noether loci for small slopes. (English summary) **98k:14011**
Brînzănescu, Vasile *see* **Aprodu, Marian, 98j:14009**
Donagi, Ron Spectral covers. (English summary) **98e:14007**
— (*with* Ein, Lawrence; Lazarsfeld, Robert) Nilpotent cones and sheaves on $K3$ surfaces. **98f:14006**
Earl, Richard The Mumford relations and the moduli of rank three stable bundles. (English summary) **98j:14010**
Ein, Lawrence *see* **Donagi, Ron; et al., 98f:14006**
Grzegorczyk, I. *see* **Brambila-Paz, L.; et al., 98k:14011**
He, Min[3] Espaces de modules de systèmes cohérents. I. Normalité. (English and French summaries) [Moduli spaces of coherent systems. I. Normality] **98m:14011**
— Espaces de modules de systèmes cohérents. II. Nombres de Donaldson. (English and French summaries) [Moduli spaces of coherent systems. II. Donaldson numbers] **98m:14012**
Hein, Georg On the generalized theta divisor. (English summary) **98a:14018**
Herrera, Rafael (*with* Salamon, Simon) Intersection numbers on moduli spaces and symmetries of a Verlinde formula. (English summary) **98k:14012**
Hu, Yi (*with* Li, Wei-Ping) Birational models of the moduli spaces of stable vector bundles over curves. (English summary) **98k:14013**
Huybrechts, Daniel (*with* Lehn, Manfred) ★ The geometry of moduli spaces of sheaves. (English summary) **98g:14012**
Kim, Bumsig On equivariant quantum cohomology. **98h:14013**
King, A. D. *see* **Balaji, V.; et al., 98c:14009**
Kumar, Shrawan (*with* Narasimhan, M. S.) Picard group of the moduli spaces of G-bundles. **98d:14014**
Laszlo, Yves (*with* Sorger, Christoph) The line bundles on the moduli of parabolic G-bundles over curves and their sections. (English and French summaries) **98f:14007**
Lazarsfeld, Robert *see* **Donagi, Ron; et al., 98f:14006**
Lehn, Manfred *see* **Huybrechts, Daniel, 98g:14012**
Le Potier, J. ★ Lectures on vector bundles. (English summary) **98a:14019**
Li, Wei-Ping (*with* Qin, Zhenbo) Rank-3 stable bundles on rational ruled surfaces. **98c:14010**
— Relations between moduli spaces of stable bundles over $\mathbf{P}_2$ and rationality. (English summary) **98d:14015**
— *see also* **Hu, Yi, 98k:14013**
Lysenko, S. A. *see* **Arinkin, D. A., 98h:14012**
(Maciocia, A.) *see* **Le Potier, J., 98a:14019**
Manin, Yurii Ivanovich *see* **Behrend, K., 98i:14014**
Mehta, Vikram (*with* Ramadas, T. R.) Moduli of vector bundles, Frobenius splitting, and invariant theory. (English summary) **98a:14020**
Nagaraj, D. S. (*with* Seshadri, C. S.) Degenerations of the moduli spaces of vector bundles on curves. I. (English summary) **98f:14008**
Nakashima, Tohru Stable vector bundles of degree one on algebraic surfaces. (English summary) **98d:14016**
— Space of conformal blocks in 4D WZW theory. (English summary) **98h:14014**
Narasimhan, M. S. *see* **Kumar, Shrawan, 98d:14014**
Newstead, P. E. *see* **Balaji, V.; et al., 98c:14009** *and* **Brambila-Paz, L.; et al., 98k:14011**
O'Grady, Kieran G. Relations among Donaldson polynomials of certain algebraic surfaces. I. (English summary) **98a:14021a**
— Relations among Donaldson polynomials of certain algebraic surfaces. II. (English summary) **98a:14021b**
Pauly, Christian On Pryms, rank 2 bundles and nonabelian theta functions. **98d:14017**
Qin, Zhenbo *see* **Li, Wei-Ping, 98c:14010**
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Ramanathan, Annamalai Moduli for principal bundles over algebraic curves. I. (English summary) **98b:14009a**
— Moduli for principal bundles over algebraic curves. II. (English summary) **98b:14009b**
Rudakov, A. N. Stability for an abelian category. (English summary) **98j:14011**
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Seshadri, C. S. *see* **Nagaraj, D. S., 98f:14008** *and* **Balaji, V., 98k:14010**
Skiti, M. Sur une famille de fibrés instantons. [On a family of instanton bundles] **98j:14012**
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Teleman, Constantin Verlinde factorization and Lie algebra cohomology. **98g:14013**
Thaddeus, Michael An introduction to the topology of the moduli space of stable bundles on a Riemann surface. **98b:14010**
Yokogawa, Kôji *see* **Boden, Hans U., 98a:14017**

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Anand, Christopher Ward's solitons. (English summary) **98k:58100**
Arinkin, D. A. (*with* Lysenko, S. A.) Invertible sheaves on the moduli variety of SL(2)-bundles with a connection on $\mathbf{P}^1$. (Russian. English summary) **98k:14020**
Bantay, Peter The untwisted stabilizer in simple current extensions. (English summary) **98b:81222**
Behrend, K. (*with* Fantechi, Barbara) The intrinsic normal cone. (English summary) **98e:14022**
Biquard, Olivier (*with* García-Prada, Oscar) Parabolic vortex equations and instantons of infinite energy. (English summary) **98h:32033**
Biswas, Indranil Determinant bundle over the universal moduli space of vector bundles over the Teichmüller space. (English and French summaries) **98i:32025**
Boden, Hans U. Invariants of fibred knots from moduli. **98j:57005**
Brennan, Joseph P. Invariant theory in characteristic p: Hazlett's symbolic method for binary quantics. (English summary) **98h:13006**
Brînzănescu, Vasile ★ Holomorphic vector bundles over compact complex surfaces. **98g:32053**
Bryan, Jim Symplectic geometry and the relative Donaldson invariants of $\overline{\mathbf{C}\mathbf{P}}^2$. (English summary) **98b:57047**
Eguchi, Tohru (*with* Hori, Kentaro; Xiong, Chuan-Sheng) Quantum cohomology and Virasoro algebra. (English summary) **98j:14035**
El Mazouni, Abdelghani Quotient de la variété des points infiniment voisins d'ordre 9 sous l'action de PGL_3. (English and French summaries) [Quotient of the variety of infinitely near points of order 9 under the action of PGL_3] **98m:14024**
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Feigin, B. L. (*with* Malikov, F. G.) Modular functor and representation theory of $\widehat{\mathrm{sl}}_2$ at a rational level. (English summary) **98a:17034**
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Guruprasad, Krishnamurthi (*with* Huebschmann, J.; Jeffrey, Lisa C.; Weinstein, Alan D.) Group systems, groupoids, and moduli spaces of parabolic bundles. **98e:58034**
Hori, Kentaro *see* **Eguchi, Tohru; et al., 98j:14035**
Hu, Yi Relative geometric invariant theory and universal moduli spaces. (English summary) **98i:14016**
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Jeffrey, Lisa C. *see* **Guruprasad, Krishnamurthi; et al., 98e:58034**
Kanev, Vasil Special line bundles on curves with involution. **98a:14011**
Kaufmann, Ralph Martin The intersection form in $\mathscr{H}^*(\overline{\mathcal{M}}_{0n})$ and the explicit Künneth formula in quantum cohomology. **98c:14006**
Kumar, Shrawan (*with* Laumon, Gérard; Stuhler, Ulrich) ★ Vector bundles on curves—new directions. **98i:14004**
Laumon, Gérard *see* **Kumar, Shrawan; et al., 98i:14004**
Li, Yingchen KP equations and vector bundles on curves. **98g:14035**
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McKernan, James Versality for canonical curves and complete intersections. **98g:14024**
Mehta, Vikram (*with* Ramadas, T. R.) Frobenius splitting and invariant theory. (English summary) **98j:13009**
Mestrano, Nicole Sur les espaces de modules des fibrés vectoriels de rang deux sur des hypersurfaces de $\mathbf{P}^3$. [Moduli spaces of rank-two vector bundles on hypersurfaces in $\mathbf{P}^3$] **98h:14052**
Mochizuki, Shinichi A theory of ordinary p-adic curves. **98h:11078**
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— Erratum: "Quasi-parabolic Siegel formula". (English summary) **98h:14037b**
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Oxbury, W. M. (*with* Pauly, Christian; Previato, E.) Subvarieties of $\mathscr{SU}_C(2)$ and 2θ-divisors in the Jacobian. (English summary) **98m:14034**
Pandharipande, Rahul The canonical class of $\overline{M}_{0,n}(\mathbf{P}^r, d)$ and enumerative geometry. (English summary) **98h:14067**
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14D22 Fine and coarse moduli spaces

Arrondo, Enrique (*with* Sols Lucía, Ignacio; Speiser, Robert) Global moduli for contacts. **98h:14015**
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Sorger, Christoph La formule de Verlinde. (French summary) [The Verlinde formula] **98f:14009**
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— Gromov-Witten invariants in algebraic geometry. (English summary) **98i:14015**
Kumar, Shrawan (*with* Narasimhan, M. S.) Picard group of the moduli spaces of G-bundles. **98d:14014**
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14D25 Geometric invariants [see also 14L30]

Hu, Yi Relative geometric invariant theory and universal moduli spaces. (English summary) **98i:14016**
Rapoport, Michael Period domains over finite and local fields. (English summary) **98m:14013**
Totaro, Burt Tensor products of semistables are semistable. **98k:14014**

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Białynicki-Birula, A. (*with* Święcicka, J.) A combinatorial approach to geometric invariant theory. **98k:14066**
Derksen, Harm (*with* Kraft, Hanspeter) Constructive invariant theory. (English and French summaries) **98m:13010**
El Mazouni, Abdelghani Quotient de la variété des points infiniment voisins d'ordre 9 sous l'action de PGL_3. (English and French summaries) [Quotient of the variety of infinitely near points of order 9 under the action of PGL_3] **98m:14024**
Kirwan, Frances C. Geometric invariant theory and the Atiyah-Jones conjecture. **98e:58036**
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Kumar, Shrawan (*with* Narasimhan, M. S.) Picard group of the moduli spaces of G-bundles. **98d:14014**
Mehta, Vikram (*with* Ramadas, T. R.) Moduli of vector bundles, Frobenius splitting, and invariant theory. (English summary) **98a:14020**
— (*with* Ramadas, T. R.) Frobenius splitting and invariant theory. (English summary) **98j:13009**
Nakajima, Haruhisa Equidimensional relatively stable reductive algebraic groups with simple commutator subgroups. (English summary)
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Rump, Wolfgang Neue Aspekte zur McKay-Korrespondenz. [New aspects on the McKay correspondence] **98b:14002**
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14D99 None of the above, but in this section

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Maeda, Takashi[1] On standard projective plane bundles. (English summary) **98k:14049**
Yuzvinsky, Sergey Cohomology bases for the De Concini-Procesi models of hyperplane arrangements and sums over trees. **98m:14020**

14Exx Mappings and correspondences

14E05 Rational maps, birational correspondences

Bandman, T. M. (*with* Dethloff, Gerd-E.) Estimates of the number of rational mappings from a fixed variety to varieties of general type. (English and French summaries) **98h:14016**
Bruno, Andrea (*with* Matsuki, Kenji) Log Sarkisov program. **98h:14017**
Chądzyński, Jacek (*with* Krasiński, Tadeusz) A set on which the Łojasiewicz exponent at infinity is attained. (English summary) **98j:14013**
Dethloff, Gerd-E. *see* **Bandman, T. M., 98h:14016**
Drużkowski, Ludwik M. The Jacobian conjecture in case of "non-negative coefficients". (English summary) **98a:14022**
Harbourne, Brian Birational morphisms of rational surfaces. (English summary) **98a:14023**
Ishii, Shihoko The canonical modifications by weighted blow-ups. (English summary) **98m:14014**
Krasiński, Tadeusz *see* **Chądzyński, Jacek, 98j:14013**
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Pukhlikov, A. V. Birational automorphisms of double spaces with singularities. **98m:14015**

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Bonavero, Laurent (*with* Voisin, Claire) Schémas de Fano et variétés de Moishezon. (English and French summaries) [Fano schemes and Moishezon manifolds] **98a:14057**
Buhler, Joe (*with* Reichstein, Zinovy) On the essential dimension of a finite group. (English summary) **98e:12004**
Cynk, Sławomir (*with* Rusek, Kamil) Holomorphic bijections of algebraic sets. (English summary) **98f:32021**
Gross, Mark Deforming Calabi-Yau threefolds. **98i:14039**
Ilic, Bo Geometric properties of the double-point divisor. (English summary) **98i:14010**
Kollár, János ★ Rational curves on algebraic varieties. **98c:14001**

Kucharz, Wojciech A characterization of the complex affine line. (English summary) **98b:14025**
Maeda, Takashi[1] Birational maps of standard projective plane bundles over algebraic surfaces. (English summary) **98a:14024**
Mori, Shigefumi Birational classification of algebraic 3-folds. **98e:14013**
Prokhorov, Yu. G. On extremal contractions from threefolds to surfaces: the case of one non-Gorenstein point. (English summary) **98j:14017**
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Rusek, Kamil *see* **Cynk, Sławomir**, **98f:32021**
Schuhmann, Carmen Mapping threefolds onto three-dimensional quadrics. **98a:14053**
Shokurov, Vyacheslav V. Letters of a bi-rationalist. I. A projectivity criterion. **98i:14022**
Umezu, Yumiko Normal quintic surfaces which are birationally Enriques surfaces. **98g:14038**
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14E07 Birational automorphisms, Cremona group and generalizations [see also 32G20]

Campbell, L. Andrew Jacobian pairs and Hamiltonian flows. (English summary) **98e:14008**
Iskovskikh, V. A. (*with* Pukhlikov, A. V.) Birational automorphisms of multidimensional algebraic manifolds. **98e:14009**
Maeda, Takashi[1] Birational maps of standard projective plane bundles over algebraic surfaces. (English summary) **98a:14024**
Pan, Ivan Sur les transformations de Cremona de bidegré (3, 3). (French summary) [Cremona transformations of bidegree (3, 3)] **98m:14016**
Pukhlikov, A. V. Birational automorphisms of three-dimensional algebraic manifolds stratified on cubic surfaces. (Russian) **98j:14014**
— *see also* **Iskovskikh, V. A.**, **98e:14009**
Rerikh, K. V. Algebraic-geometry approach to integrability of birational plane mappings. Integrable birational quadratic reversible mappings. I. (English summary) **98k:14015**

Items with secondary classifications in 14E07

Bruno, Andrea (*with* Matsuki, Kenji) Log Sarkisov program. **98h:14017**
Kaliman, Shulim (*with* Makar-Limanov, Leonid) Affine algebraic manifolds without dominant morphisms from Euclidean spaces. (English summary) **98i:14042**
Makar-Limanov, Leonid *see* **Kaliman, Shulim**, **98i:14042**
Matsuki, Kenji *see* **Bruno, Andrea**, **98h:14017**
Yu, Jie-Tai Identity polynomials and test polynomials. (English summary) **98d:14021**

14E09 Automorphisms [see also 14J50, 14L27]

Campbell, L. Andrew Partial properness and the Jacobian conjecture. (English summary) **98h:14018**
Drużkowski, Ludwik M. (*with* Gurycz, Jerzy) An elementary proof of the tameness of polynomial automorphisms of k^2. (English summary) **98d:14018**
van den Essen, Arno (*with* Hubbers, Engelbert) Chaotic polynomial automorphisms: counterexamples to several conjectures. (English summary) **98b:14011**
— (*with* Hubbers, Engelbert) $\mathcal{D}_n(A)$ for a class of polynomial automorphisms and stably tameness. (English summary) **98k:14016**
Furter, Jean-Philippe On the variety of automorphisms of the affine plane. (English summary) **98i:14017**
Gurycz, Jerzy *see* **Drużkowski, Ludwik M.**, **98d:14018**
Hubbers, Engelbert *see* **van den Essen, Arno**, **98b:14011** *and* **98k:14016**
Jelonek, Zbigniew A hypersurface which has the Abhyankar-Moh property. **98d:14019**
Le Bruyn, Lieven Automorphisms and Lie stacks. (English summary) **98h:14019**
Manetti, Marco Automorphisms of generic cyclic covers. (English summary) **98d:14020**
Torres, Fernando Bounding the order of automorphisms of certain curves. (English and Italian summaries) **98f:14010**
Yu, Jie-Tai On generalized strongly nilpotent matrices. (English summary) **98a:14025**
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Campbell, L. Andrew Remarks on the real Jacobian conjecture and Samuelson maps. (English summary) **98c:58010**
Păunescu, Laurențiu (*with* Zaharia, Alexandru) On the Łojasiewicz exponent at infinity for polynomial functions. **98m:32050**
Towse, Christopher Weierstrass weights of fixed points of an involution. (English summary) **98i:14033**
Zaharia, Alexandru *see* **Păunescu, Laurențiu**, **98m:32050**

14E10 General correspondences

Items with secondary classifications in 14E10

Bukhshtaber, V. M. (*with* Veselov, A. P.) Integrable correspondences and algebraic representations of multivalued groups. **98f:58098**
Finkelberg, Michael (*with* Kuznetsov, Alexander Gennadievich) Global intersection cohomology of quasimaps' spaces. **98f:14013**
Kuznetsov, Alexander Gennadievich *see* **Finkelberg, Michael**, **98f:14013**
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14E15 Global theory of singularities, resolution [see also 14B05, 32S20, 32S45]

Abramovich, Dan (*with* Wang, Jian Hua[5]) Equivariant resolution of singularities in characteristic 0. (English summary) **98c:14011**
Alexander, James Ernest (*with* Hirschowitz, André) Generic hypersurface singularities. (English summary) **98g:14014**
Bierstone, Edward (*with* Milman, Pierre D.) Canonical desingularization in characteristic zero by blowing up the maximum strata of a local invariant. (English summary) **98e:14010**
Hironaka, H. On the presentations of resolution data. **98k:14020**
Hirschowitz, André *see* **Alexander, James Ernest**, **98g:14014**
Ito, Yukari (*with* Reid, Miles) The McKay correspondence for finite subgroups of SL(3, **C**). (English summary) **98i:14018**
de Jong, Aise Johan Smoothness, semi-stability and alterations. **98e:14011**
Kuznetsov, Alexander Gennadievich Laumon's resolution of Drinfel'd's compactification is small. **98d:14022**
Markushevich, D. G. Resolution of $\mathbf{C}^3/H_{168}$. **98i:14019**
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Nash, John Forbes, Jr. Arc structure of singularities. **98f:14011**
Reid, Miles *see* **Ito, Yukari**, **98i:14018**
Villamayor U., Orlando E. Resolution in families. **98k:14017**
Wang, Jian Hua[5] *see* **Abramovich, Dan**, **98c:14011**

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Aspinwall, Paul S. Resolution of orbifold singularities in string theory. (English summary) **98b:81174**
Berthelot, Pierre Altérations de variétés algébriques (d'après A. J. de Jong). (French summary) [Alterations of algebraic varieties (following A. J. de Jong)] **98m:14021**
Boudhraa, Zineddine Resolution of singularities of determinantal rings. (English summary) **98a:14063**
Faltings, Gerd Explicit resolution of local singularities of moduli-spaces. **98c:14043**
Gurjar, R. V. (*with* Zhang, De-Qi) Normal algebraic surfaces with trivial bicanonical divisor. (English summary) **98c:14012**
de Jong, Aise Johan Families of curves and alterations. (English summary) **98f:14019**
Namikawa, Yoshinori Deformation theory of Calabi-Yau threefolds and certain invariants of singularities. **98m:14042**
Tsuboi, Syōji Cubic hyper-resolutions of analytic varieties with hypersurface ordinary singularities of dimension ≤ 5. **98e:32062**
Yoshida, Masaaki The democratic compactification of configuration spaces of point sets on the real projective line. **98j:55008**
Zhang, De-Qi *see* **Gurjar, R. V.**, **98c:14012**

14E20 Coverings, fundamental group (mappings)

Bauer, Ingrid Irrational pencils on non-compact algebraic manifolds. **98i:14020**
Casnati, Gianfranco Covers of algebraic varieties. III. The discriminant of a cover of degree 4 and the trigonal construction. (English summary) **98i:14021**
Gurjar, R. V. (*with* Zhang, De-Qi) Normal algebraic surfaces with trivial bicanonical divisor. (English summary) **98c:14012**
Hironaka, Eriko Multi-polynomial invariants for plane algebraic curves. **98b:14021**
Janik, Romuald A. On irreducible components of a Weierstrass-type variety. (English summary) **98h:14022**
Katzarkov, L. Nilpotent groups and universal coverings of smooth projective varieties. **98g:14015**
Nakamura, Hiroaki (*with* Takao, Naotake) Galois rigidity of pro-l pure braid groups of algebraic curves. (English summary) **98e:14012**
Shafarevich, Igor' Rostislavovich Classification, fundamental groups and universal covering spaces of algebraic varieties. **98k:14018**
Takao, Naotake *see* **Nakamura, Hiroaki**, **98e:14012**
Wright, David Lee Affine surfaces fibered by affine lines over the projective line. **98j:14015**
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Items with secondary classifications in 14E20

Amerik, Ekaterina Maps onto certain Fano threefolds. (English summary) **98h:14049**
Borovoi, M. V. Abelian Galois cohomology of reductive groups. (English summary) **98j:20061**
Catanese, Fabrizio Homological algebra and algebraic surfaces. **98m:14039**
Couveignes, Jean-Marc Quelques revêtements définis sur **Q**. (French summary) [Some coverings defined over **Q**] **98c:14021**
Dèbes, Pierre (*with* Douai, Jean-Claude) Algebraic covers: field of moduli versus field of definition. (English and French summaries) **98k:11081**
Douai, Jean-Claude *see* **Dèbes, Pierre**, **98k:11081**
Garuti, Marco A. Prolongement de revêtements galoisiens en géométrie rigide. (English summary) [Extension of Galois coverings in rigid geometry] **98m:14023**
Libgober, Anatoly Position of singularities of hypersurfaces and the topology of their complements. (English summary) **98a:14058**
Lochak, Pierre (*with* Schneps, Leila) A cohomological interpretation of the Grothendieck-Teichmüller group. (English summary) **98j:20032**
(Scheiderer, C.) *see* **Lochak, Pierre**, **98j:20032**
Schneps, Leila *see* **Lochak, Pierre**, **98j:20032**
Shimada, Ichiro Picard-Lefschetz theory for the universal coverings of complements to affine hypersurfaces. (English summary) **98b:14008**

14E22 Ramification problems [see also 11S15]

Items with secondary classifications in 14E22

Chaves, Gabriela Revêtements ramifiés de la droite projective complexe. [Ramified coverings of the complex projective line] **98j:14038**
Flenner, Hubert (*with* Manaresi, Mirella) Intersections of projective varieties and generic projections. (English summary) **98c:14005**
Manaresi, Mirella *see* **Flenner, Hubert**, **98c:14005**

14E25 Imbeddings

Ballico, Edoardo (*with* Coppens, Marc) Very ample line bundles on blown-up projective

varieties. (English summary) **98k:14019**
Coppens, Marc *see* **Ballico, Edoardo, 98k:14019**

Items with secondary classifications in 14E25

Bauer, Thomas (*with* Szemberg, Tomasz) Higher order embeddings of abelian varieties. **98a:14009**
(Fernández del Busto, Guillermo) *see* **Lazarsfeld, Robert, 98h:14008**
Gallego, Francisco Javier (*with* Purnaprajna, B. P.) Normal presentation on elliptic ruled surfaces. **98c:14030**
— (*with* Purnaprajna, B. P.) Higher syzygies of elliptic ruled surfaces. **98c:14031**
Lazarsfeld, Robert Lectures on linear series. **98h:14008**
Purnaprajna, B. P. *see* **Gallego, Francisco Javier, 98c:14030** *and* **98c:14031**
Szemberg, Tomasz *see* **Bauer, Thomas, 98a:14009**

14E30 Minimal models

Andreatta, Marco (*with* Mella, Massimiliano) Contractions on a manifold polarized by an ample vector bundle. (English summary) **98b:14012**
Kachi, Yasuyuki Extremal contractions from 4-dimensional manifolds to 3-folds. **98j:14016**
Matsushita, Daisuke On a relation among toric minimal models. (English summary) **98m:14017**
Mella, Massimiliano *see* **Andreatta, Marco, 98b:14012**
Mori, Shigefumi Birational classification of algebraic 3-folds. **98e:14013**
Nakamura, Shu[2] On the classification of the third reduction with a spectral value condition. **98g:14016**
Prokhorov, Yu. G. On extremal contractions from threefolds to surfaces: the case of one non-Gorenstein point. (English summary) **98j:14017**
Shokurov, Vyacheslav V. Letters of a bi-rationalist. I. A projectivity criterion. **98i:14022**

Items with secondary classifications in 14E30

Andreatta, Marco (*with* Peternell, Thomas) On the limits of manifolds with nef canonical bundles. **98k:14047**
Bruno, Andrea (*with* Matsuki, Kenji) Log Sarkisov program. **98h:14017**
Coleman, Robert F. p-adic Banach spaces and families of modular forms. **98b:11047**
Gross, Mark Primitive Calabi-Yau threefolds. **98i:14038**
Iskovskikh, V. A. (*with* Pukhlikov, A. V.) Birational automorphisms of multidimensional algebraic manifolds. **98e:14009**
Matsuki, Kenji *see* **Bruno, Andrea, 98h:14017**
Mella, Massimiliano Adjunction theory on terminal varieties. **98j:14005**
— Vector bundles on log terminal varieties. (English summary) **98j:14056**
Nikulin, Vyacheslav Valentinovich The diagram method for 3-folds and its application to the Kähler cone and Picard number of Calabi-Yau 3-folds. I. (English summary) **98f:14033**
Peternell, Thomas *see* **Andreatta, Marco, 98k:14047**
Pukhlikov, A. V. *see* **Iskovskikh, V. A., 98e:14009**
Shin, Dong-Kwan Some inequalities between K_X^3 and $\chi(\mathcal{O}_X)$ for a threefold of general type. **98g:14040**
(Shokurov, Vyacheslav V.) *see* **Nikulin, Vyacheslav Valentinovich, 98f:14033**
Veys, Willem Zeta functions for curves and log canonical models. **98k:11176**
Zhang, Qi On the spannedness of adjunction of vector bundles. **98c:14037**

14E35 Results in dimension ≤ 3

Items with secondary classifications in 14E35

Guan, Zhuang Dan Toward a classification of almost homogeneous manifolds. I. Linearization of the singular extremal rays. **98i:14037**

14E40 Local structure of maps: étale, flat, etc. [see also 13–XX, 14F20]

Nowak, Krzysztof Jan Flat morphisms between regular varieties. (English summary) **98b:14013**

Items with secondary classifications in 14E40

Avramov, Luchezar L. (*with* Foxby, Hans-Bjørn) Ring homomorphisms and finite Gorenstein dimension. **98d:13014**
Foxby, Hans-Bjørn *see* **Avramov, Luchezar L., 98d:13014**
Wright, David Lee Affine surfaces fibered by affine lines over the projective line. **98j:14015**

14E99 None of the above, but in this section

Karaś, Marek An estimate of the geometric degree of an extension of some polynomial proper mappings. (English summary) **98e:14014**

Items with secondary classifications in 14E99

Fulton, William (*with* Pandharipande, Rahul) Notes on stable maps and quantum cohomology. **98m:14025**
Pandharipande, Rahul *see* **Fulton, William, 98m:14025**
Wojtkowiak, Zdzisław Functional equations of iterated integrals with regular singularities. **98b:14018**

14Fxx (Co)homology theory [see also 13Dxx]

14F05 Vector bundles, sheaves, related construction [see also 18F20, 32Lxx, 46M20]

Arinkin, D. A. (*with* Lysenko, S. A.) Invertible sheaves on the moduli variety of SL(2)-bundles with a connection on $\mathbf{P}^1$. (Russian. English summary) **98k:14020**
Biswas, Indranil Green-Lazarsfeld sets and the logarithmic Dolbeault complex for Higgs line bundles. **98b:14014**
Fujiwara, Tsuyoshi[2] Trivialization of para-abelian fibre bundles. **98j:14018**
Lysenko, S. A. *see* **Arinkin, D. A., 98k:14020**
Némethi, András Generalized Weil's reciprocity law and multiplicativity theorems. (English summary) **98d:14023**
Quandt, Ines On a relative version of the Krichever correspondence. **98h:14023**
Rudakov, A. N. Versal families and the existence of stable sheaves on a del Pezzo surface. (English summary) **98c:14013**
Spreafico, Maria Luisa Bertini type theorems for vector bundles in any characteristic. **98g:14017**

Items with secondary classifications in 14F05

Al Amrani, Abd'Allah Cohomological study of weighted projective spaces. **98k:14072**
Brylinski, Jean-Luc (*with* McLaughlin, D. A.) Non-commutative reciprocity laws associated to finite groups. **98g:58020**
Gajer, Paweł Geometry of Deligne cohomology. **98f:14012**
Huybrechts, Daniel (*with* Lehn, Manfred) ★ The geometry of moduli spaces of sheaves. (English summary) **98g:14012**
Kapranov, Mikhail Eisenstein series and quantum affine algebras. **98i:11033**
Kawakami, Tomohiro Definable G vector bundles over a definable G set and its quotient space. (English summary) **98i:03050**
Kawazoe, Mitsuru Projectivity of torus fibre spaces over curves and multiple fibres. (English summary) **98g:32054**
Kovács, Sándor J. Relative de Rham complex for non-smooth morphisms. **98f:14014**
Laszlo, Yves (*with* Sorger, Christoph) The line bundles on the moduli of parabolic G-bundles over curves and their sections. (English and French summaries) **98f:14007**
Lehn, Manfred *see* **Huybrechts, Daniel, 98g:14012**
Masuda, Kayo Equivariant algebraic vector bundles over a product of affine varieties. **98a:14061**
Masuda, Mikiya Equivariant algebraic vector bundles over affine toric varieties. **98i:14051**
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Migliore, Juan C. (*with* Peterson, Christopher S.) A construction of codimension three arithmetically Gorenstein subschemes of projective space. (English summary) **98d:14060**
Peterson, Christopher S. *see* **Migliore, Juan C., 98d:14060**
Sorger, Christoph *see* **Laszlo, Yves, 98f:14007**
Tyurin, A. N. The classical geometry of vector bundles. **98k:14060**
Ueno, Kenji Geometry of torus quasi bundles over curves. (English summary) **98f:32030**

14F10 Differentials and other special sheaves [see also 32C38]

Brückmann, Peter The Hilbert polynomial of the sheaf Ω^T of germs of T-symmetrical tensor differential forms on complete intersections. (English summary) **98a:14026**
Gajer, Paweł Geometry of Deligne cohomology. **98f:14012**
Huang, I-Chiau Theory of residues on the projective plane. (English summary) **98a:14027**
Hübl, Reinhold (*with* Seibert, Gerhard) The adjunction morphism for regular differential forms and relative duality. (English summary) **98i:14023**
— (*with* Sun, Xiaotao) On the cohomology of regular differential forms and dualizing sheaves. (English summary) **98k:14021**
Keum, Jong Hae A note on weighted projective spaces. (English summary) **98k:14022**
Kim, Minhyong Pfaffian equations and the Cartier operator. **98j:14019**
Moody, John Atwell On resolving vector fields. **98a:14028**
Sastry, Pramathanath Residues and duality for algebraic schemes. **98a:14029**
Seibert, Gerhard *see* **Hübl, Reinhold, 98i:14023**
Sun, Xiaotao *see* **Hübl, Reinhold, 98k:14021**
Uchibori, Tomio On residue free differential forms of an algebraic scheme over a field of characteristic p. (English summary) **98h:14024**

Items with secondary classifications in 14F10

Cattani, Eduardo (*with* Cox, David A.; Dickenstein, Alicia) Residues in toric varieties. (English summary) **98f:14039**
— (*with* Dickenstein, Alicia) A global view of residues in the torus. (English summary) **98i:14050**
Coutinho, S. C. (*with* Levcovitz, D.) Involutive varieties with smooth support. (English summary) **98f:32010**
Cox, David A. *see* **Cattani, Eduardo; et al., 98f:14039**
Dickenstein, Alicia *see* **Cattani, Eduardo; et al., 98f:14039** *and* **98i:14050**
Fujiwara, Tsuyoshi[2] Trivialization of para-abelian fibre bundles. **98j:14018**
Kaji, Hajime (*with* Noma, Atsushi) On the generic injectivity of the Gauss map in positive characteristic. (English summary) **98h:14065**
Kashiwara, Masaki (*with* Schapira, Pierre) Integral transforms with exponential kernels and Laplace transform. (English summary) **98d:32013**
Le Stum, B. (*with* Quirós, A.) Transversal crystals of finite level. (English and French summaries) **98g:14019**
Levcovitz, D. *see* **Coutinho, S. C., 98f:32010**
Noma, Atsushi Stability of Frobenius pull-backs of tangent bundles and generic injectivity of Gauss maps in positive characteristic. (English summary) **98f:14042**
— *see also* **Kaji, Hajime, 98h:14065**
Perkinson, David Principal parts of line bundles on toric varieties. (English summary) **98b:14039**
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Sato, Mikio $\mathcal{D}$-modules and nonlinear integrable systems. **98h:58091**
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Thomsen, Jesper Funch $\mathcal{D}$-affinity and toric varieties. **98g:14068**

14F17 Vanishing theorems [see also 32L20]

Buch, Anders (*with* Thomsen, Jesper Funch; Lauritzen, Niels; Mehta, Vikram) The Frobenius morphism on a toric variety. (English summary) **98j:14020**

Franco, Davide Vanishings for the cohomology of certain families of stable rank two vector bundles on $\mathbf{P}^3$. (Italian summary) **98b:14015**
Lauritzen, Niels (*with* Rao, Aroor Prabhakar) Elementary counterexamples to Kodaira vanishing in prime characteristic. (English summary) **98e:14015**
— *see also* **Buch, Anders; et al., 98j:14020**
Manivel, Laurent Théorèmes d'annulation sur certaines variétés projectives. [Vanishing theorems on some projective varieties] **98a:14030**
— Vanishing theorems for ample vector bundles. (English summary) **98e:14016**
Mehta, Vikram *see* **Buch, Anders; et al., 98j:14020**
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Biswas, Indranil Parabolic ample bundles. **98e:14041**
Delfino, Donatella A vanishing theorem for local cohomology modules. (English summary) **98f:13015**
Ein, Lawrence Multiplier ideals, vanishing theorems and applications. **98m:14006**
(Fernández del Busto, Guillermo) *see* **Lazarsfeld, Robert, 98h:14008**
Huneke, Craig (*with* Smith, Karen E.) Tight closure and the Kodaira vanishing theorem. **98e:13007**
Kollár, János ★ Rational curves on algebraic varieties. **98c:14001**
Laytimi, F. On degeneracy loci. **98a:14064**
Lazarsfeld, Robert Lectures on linear series. **98h:14008**
Nakkajima, Yukiyoshi On infinitesimal liftings and degenerations of Hodge-de Rham spectral sequences. (English summary) **98e:14021**
Smith, Karen E. *see* **Huneke, Craig, 98e:13007**

14F20 Étale and other Grothendieck topologies and cohomologies

Colliot-Thélène, Jean-Louis (*with* Hoobler, Raymond T.; Kahn, Bruno) The Bloch-Ogus-Gabber theorem. (English summary) **98j:14021**
Faltings, Gerd The determinant of cohomology in etale topology. **98k:14023**
Gabber, Ofer A note on the unramified Brauer group and purity. **98m:14018**
Hoobler, Raymond T. *see* **Colliot-Thélène, Jean-Louis; et al., 98j:14021**
Huber, Annette Mixed perverse sheaves for schemes over number fields. (English summary) **98k:14024**
de Jong, Aise Johan (*with* van der Put, Marius) Étale cohomology of rigid analytic spaces. (English summary) **98d:14024**
Kahn, Bruno *see* **Colliot-Thélène, Jean-Louis; et al., 98j:14021**
Nakayama, Chikara Logarithmic étale cohomology. **98j:14022**
van der Put, Marius *see* **de Jong, Aise Johan, 98d:14024**
Ramero, L. Fourier transforms in geometry and arithmetic. (English summary) **98e:14017**
Saïbi, Moussa Transformation de Fourier-Deligne sur les groupes unipotents. (English and French summaries) [Fourier-Deligne transform on unipotent groups] **98c:14014**

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Al Amrani, Abd'Allah Cohomological study of weighted projective spaces. **98k:14072**
Barbieri Viale, Luca $\mathscr{K}$-cohomolpgies versus algebraic cycles. (English summary) **98d:14003**
Breuil, Christophe Topologie log-syntomique, cohomologie log-cristalline et cohomologie de Čech. (English and French summaries) [Log-syntomic topology, log-crystalline cohomology and Čech cohomology] **98d:14025**
Deligne, P. Extensions centrales de groupes algébriques simplement connexes et cohomologie galoisienne. [Central extensions of simply connected algebraic groups and Galois cohomology] **98d:14056**
Étesse, J.-Y. (*with* Le Stum, B.) Fonctions L associées aux F-isocristaux surconvergents. II. Zéros et pôles unités. (English and French summaries) [L-functions associated with superconvergent F-isocrystals. II. Unit roots and poles] **98a:14035**
Kim, Minhyong Erratum: "On Poincaré polynomials for hyperplane arrangements in positive characteristic" [Comm. Algebra **21** (1993), no. 4, 1337–1346; MR 94a:52027]. **98m:52019**
Kings, Guido Extensions of motives of modular forms. **98j:11050**
Le Stum, B. *see* **Étesse, J.-Y., 98a:14035**
Niziol, Wiesława Duality in the cohomology of crystalline local systems. (English summary) **98k:14026**
Saito, Takeshi (*with* Terasoma, Tomohide) Determinant of period integrals. **98c:14004**
Terasoma, Tomohide *see* **Saito, Takeshi, 98c:14004**

14F25 Classical real and complex cohomology

Chéniot, D. Vanishing cycles in a pencil of hyperplane sections of a nonsingular quasiprojective variety. **98h:14025**
Jones, Oliver On the geometry of varieties of invertible symmetric and skew-symmetric matrices. (English summary) **98g:14018**
Looijenga, Eduard (*with* Lunts, Valery A.) A Lie algebra attached to a projective variety. (English summary) **98m:14019**
Lunts, Valery A. *see* **Looijenga, Eduard, 98m:14019**
Yuzvinsky, Sergey Cohomology bases for the De Concini-Procesi models of hyperplane arrangements and sums over trees. **98m:14020**

Items with secondary classifications in 14F25

Balaji, V. (*with* King, A. D.; Newstead, P. E.) Algebraic cohomology of the moduli space of rank 2 vector bundles on a curve. (English summary) **98c:14009**
Barthel, Gottfried (*with* Fieseler, Karl-Heinz) Invariant divisors and homology of compact complex toric varieties. **98a:14066**
— (*with* Brasselet, Jean-Paul; Fieseler, Karl-Heinz; Kaup, Ludger) Diviseurs invariants et homomorphisme de Poincaré de variétés toriques complexes. (English and French summaries) [Invariant divisors and Poincaré homomorphism of complex toric varieties] **98c:14044**
Boden, Hans U. (*with* Yokogawa, Kôji) Moduli spaces of parabolic Higgs bundles and parabolic $K(D)$ pairs over smooth curves. I. (English summary) **98a:14017**
Brasselet, Jean-Paul An interpretation of the Poincaré morphism for compact toric varieties. **98g:14066**
— *see also* **Barthel, Gottfried; et al., 98c:14044**
Diamond, Fred The Taylor-Wiles construction and multiplicity one. **98c:11047**
Diaz, Steven (*with* Edidin, Dan) Towards the homology of Hurwitz spaces. (English summary) **98e:14028**
Edidin, Dan *see* **Diaz, Steven, 98e:14028**
Fieseler, Karl-Heinz *see* **Barthel, Gottfried, 98a:14066** *and* **98c:14044**
Kaup, Ludger *see* **Barthel, Gottfried; et al., 98c:14044**
King, A. D. *see* **Balaji, V.; et al., 98c:14009**
Lehrer, Gus I. The cohomology of the regular semisimple variety. (English summary) **98k:20080**
Looijenga, Eduard Cohomology and intersection homology of algebraic varieties. **98e:14019**
Newstead, P. E. *see* **Balaji, V.; et al., 98c:14009**
Pouyanne, Nicolas Cohomologie entière de certaines variétés toriques complexes lisses de dimension trois. (English and French summaries) [Integral cohomology of some smooth complex toric 3-folds] **98f:14040**
Thaddeus, Michael An introduction to the topology of the moduli space of stable bundles on a Riemann surface. **98b:14010**
Yokogawa, Kôji Moduli of parabolic Higgs sheaves. **98c:14026**
— *see also* **Boden, Hans U., 98a:14017**

14F30 p-adic cohomology, crystalline cohomology

Badra, Abdallah Déformations des p-groupes finis à un schéma formel sans p-torsion. (English and French summaries) [Deformations of finite p-group schemes to a formal scheme without p-torsion] **98h:14026**
Berthelot, Pierre Altérations de variétés algébriques (d'après A. J. de Jong). (French summary) [Alterations of algebraic varieties (following A. J. de Jong)] **98m:14021**
— Finitude et pureté cohomologique en cohomologie rigide. [Finiteness and cohomological purity in rigid cohomology] **98j:14023**
Breuil, Christophe Topologie log-syntomique, cohomologie log-cristalline et cohomologie de Čech. (English and French summaries) [Log-syntomic topology, log-crystalline cohomology and Čech cohomology] **98d:14025**
— Représentations p-adiques semi-stables et transversalité de Griffiths. [Semistable p-adic representations and Griffiths transversality] **98b:14016**
Faltings, Gerd Crystalline cohomology and p-adic Galois-representations. **98k:14025**
— Integrality of Tate-cycles. (English summary) **98i:14024**
Garnier, Laurent Cohérence sur $\mathscr{D}^\dagger$ et irrégularité des isocristaux surconvergents de rang 1. (English summary) [Coherence over $\mathscr{D}^\dagger$ and irregularity of overconvergent isocrystals of rank 1] **98e:14018**
(de Jong, Aise Johan) *see* **Berthelot, Pierre, 98j:14023**
Le Stum, B. (*with* Quirós, A.) Transversal crystals of finite level. (English and French summaries) **98g:14019**
Loeser, François Principe de Boyarsky et $\mathscr{D}$-modules. [Boyarsky principles and $\mathscr{D}$-modules] **98b:14017**
Niziol, Wiesława Duality in the cohomology of crystalline local systems. (English summary) **98k:14026**
— On the image of p-adic regulators. **98a:14031**
Quirós, A. *see* **Le Stum, B., 98g:14019**
Rapoport, Michael (*with* Richartz, M.) On the classification and specialization of F-isocrystals with additional structure. (English summary) **98c:14015**
Richartz, M. *see* **Rapoport, Michael, 98c:14015**
Tsuji, Takeshi Syntomic complexes and p-adic vanishing cycles. **98a:14032**

Items with secondary classifications in 14F30

Angles, Bruno On some characteristic polynomials attached to finite Drinfeld modules. **98d:11062**
Björner, Anders (*with* Ekedahl, Torsten) Subspace arrangements over finite fields: cohomological and enumerative aspects. (English summary) **98h:52021**
Ekedahl, Torsten *see* **Björner, Anders, 98h:52021**
Étesse, J.-Y. (*with* Le Stum, B.) Fonctions L associées aux F-isocristaux surconvergents. II. Zéros et pôles unités. (English and French summaries) [L-functions associated with superconvergent F-isocrystals. II. Unit roots and poles] **98a:14035**
Harder, G. Wittvektoren. [Witt vectors] **98e:13025**
Hesselholt, Lars On the p-typical curves in Quillen's K-theory. **98a:19001**
Kim, Minhyong Pfaffian equations and the Cartier operator. **98j:14019**
Larsen, Michael (*with* Pink, Richard) A connectedness criterion for l-adic Galois representations. (English summary) **98k:11066**
Le Stum, B. *see* **Étesse, J.-Y., 98a:14035**
Pink, Richard *see* **Larsen, Michael, 98k:11066**
Rapoport, Michael Non-Archimedean period domains. **98a:14060**
— Period domains over finite and local fields. (English summary) **98m:14013**
Saito, Takeshi Modular forms and p-adic Hodge theory. **98g:11060**
Tsuzuki, Nobuo Introduction to Bloch-Kato conjecture. (Japanese) **98m:11071**
Wach, Nathalie Représentations p-adiques potentiellement cristallines. (English and French summaries) [Potentially crystalline p-adic representations] **98b:11119**
— Représentations cristallines de torsion. (English summary) [Torsion crystalline representations] **98j:11112**

14F32 Intersection (co)homology [see also 32S60]

Barthel, Gottfried (*with* Brasselet, Jean-Paul; Fieseler, Karl-Heinz; Kaup, Ludger) Invariante Divisoren und Schnitthomologie von Torischen Varietäten. (English summary) [Invariant divisors and intersection homology of toric varieties] **98j:14024**
Brasselet, Jean-Paul Intersection of algebraic cycles. **98a:14033**
— *see also* **Barthel, Gottfried; et al., 98j:14024**

Fieseler, Karl-Heinz *see* **Barthel, Gottfried; et al., 98j:14024**
Finkelberg, Michael (*with* Kuznetsov, Alexander Gennadievich) Global intersection cohomology of quasimaps' spaces. **98f:14013**
Kaup, Ludger *see* **Barthel, Gottfried; et al., 98j:14024**
Kuznetsov, Alexander Gennadievich *see* **Finkelberg, Michael, 98f:14013**
Looijenga, Eduard Cohomology and intersection homology of algebraic varieties. **98e:14019**

Items with secondary classifications in 14F32

Boe, Brian D. (*with* Fu, Joseph H. G.) Characteristic cycles in Hermitian symmetric spaces. (English summary) **98j:14068**
Fu, Joseph H. G. *see* **Boe, Brian D., 98j:14068**
Houston, Kevin Image multiple point spaces and rectified homotopical depth. (English summary) **98m:32051**
Huber, Annette Mixed perverse sheaves for schemes over number fields. (English summary) **98k:14024**
Hübsch, Tristan On a stringy singular cohomology. (English summary) **98g:32045**
Polishchuk, Alexander Perverse sheaves on a triangulated space. (English summary) **98h:18015**
Sommers, Eric A family of affine Weyl group representations. (English summary) **98m:20016**

14F35 Homotopy theory; fundamental groups [see also 14E20, 14H30]

Eyral, Christophe Homotopie des pinceaux de sections hyperplanes. (English and French summaries) [Homotopy of a pencil of hyperplane sections] **98d:14026**
Hironaka, Eriko Alexander stratifications of character varieties. (English summary) **98e:14020**
Nakamura, Hiroaki Galois rigidity of profinite fundamental groups. (Japanese) **98d:14027**
— Galois rigidity of profinite fundamental groups [translation of Sūgaku **47** (1995), no. 1, 1–17; MR 98d:14027]. (*see* **98j:00014**)
Wojtkowiak, Zdzisław Functional equations of iterated integrals with regular singularities. **98b:14018**

Items with secondary classifications in 14F35

Arapura, Donu Geometry of cohomology support loci for local systems. I. **98m:32043**
Gajer, Paweł Intersection Lawson homology. (English summary) **98g:14011**
Kapovich, M. È. (*with* Millson, John J.) Artin groups, projective arrangements, and fundamental groups of smooth complex algebraic varieties. (English and French summaries) **98i:20040**
Kulikov, Vik. S. On fundamental groups of complements to toric curves. (Russian. Russian summary) **98a:14040**
Millson, John J. *see* **Kapovich, M. È., 98i:20040**

14F40 de Rham cohomology [see also 14C30, 32C35, 32L10]

Adolphson, Alan (*with* Sperber, Steven) On twisted de Rham cohomology. (English summary) **98k:14027**
Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) ε-constants and the Galois structure of de Rham cohomology. **98j:14025**
Erez, Boas *see* **Chinburg, Ted; et al., 98j:14025**
Kimura, Hironobu On rational de Rham cohomology associated with the generalised confluent hypergeometric functions. I. $\mathbf{P}^1$ case. (English summary) **98b:14019**
Kovács, Sándor J. Relative de Rham complex for non-smooth morphisms. **98f:14014**
Nakkajima, Yukiyoshi On infinitesimal liftings and degenerations of Hodge-de Rham spectral sequences. (English summary) **98e:14021**
Pappas, Georgios *see* **Chinburg, Ted; et al., 98j:14025**
Sperber, Steven *see* **Adolphson, Alan, 98k:14027**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 98j:14025**
Yekutieli, Amnon On adelic Chern forms and the Bott residue formula. **98j:14026**

Items with secondary classifications in 14F40

Angles, Bruno On some characteristic polynomials attached to finite Drinfeld modules. **98d:11062**
Aomoto, Kazuhiko (*with* Kita, Michitake; Orlik, Peter; Terao, Hiroaki) Twisted de Rham cohomology groups of logarithmic forms. **98b:32035**
Arapura, Donu Geometry of cohomology support loci for local systems. I. **98m:32043**
Breuil, Christophe Topologie log-syntomique, cohomologie log-cristalline et cohomologie de Čech. (English and French summaries) [Log-syntomic topology, log-crystalline cohomology and Čech cohomology] **98d:14025**
Colliot-Thélène, Jean-Louis (*with* Hoobler, Raymond T.; Kahn, Bruno) The Bloch-Ogus-Gabber theorem. (English summary) **98j:14021**
Esnault, Hélène Recent developments on characteristic classes of flat bundles on complex algebraic manifolds. **98b:14005**
Faltings, Gerd Crystalline cohomology and p-adic Galois-representations. **98k:14025**
Hoobler, Raymond T. *see* **Colliot-Thélène, Jean-Louis; et al., 98j:14021**
Kahn, Bruno *see* **Colliot-Thélène, Jean-Louis; et al., 98j:14021**
Kim, Minhyong Pfaffian equations and the Cartier operator. **98j:14019**
Kita, Michitake *see* **Aomoto, Kazuhiko; et al., 98b:32035**
Maaref, Fayçal Les connexions hypergéométriques et le théorème de linéarité de T. Terasoma. (English and French summaries) [Hypergeometric connections and the linearity theorem of T. Terasoma] **98h:14011**
Orlik, Peter *see* **Aomoto, Kazuhiko; et al., 98b:32035**
Schneider, Peter[1] (*with* Teitelbaum, Jeremy) An integral transform for p-adic symmetric spaces. **98c:11048**
Teitelbaum, Jeremy *see* **Schneider, Peter**[1], **98c:11048**
Terao, Hiroaki *see* **Aomoto, Kazuhiko; et al., 98b:32035**
Umeno, Takashi De Rham cohomology of toroidal groups and complex line bundles. (English summary) **98c:32038**
Weibel, Charles The Hodge filtration and cyclic homology. (English summary) **98h:19004**

14F45 Topological properties

Debarre, Olivier Théorèmes de connexité pour les produits d'espaces projectifs et les grassmanniennes. (English summary) [Connectedness theorems for products of projective spaces and Grassmannians] **98f:14015**

Items with secondary classifications in 14F45

Arapura, Donu Geometry of cohomology support loci for local systems. I. **98m:32043**
Brylinski, Jean-Luc (*with* McLaughlin, D. A.) Multidimensional reciprocity laws. **98b:11072**
Fang, Fuquan Topology of complete intersections. (English summary) **98k:14071**
Gurjar, R. V. A new proof of Suzuki's formula. (English summary) **98h:14054**
Houston, Kevin Global topology of images of finite complex analytic maps. (English summary) **98k:32050**
Ito, Yukari (*with* Reid, Miles) The McKay correspondence for finite subgroups of SL(3, **C**). (English summary) **98i:14018**
McLaughlin, D. A. *see* **Brylinski, Jean-Luc, 98b:11072**
Némethi, András Generalized Weil's reciprocity law and multiplicativity theorems. (English summary) **98d:14023**
Reid, Miles *see* **Ito, Yukari, 98i:14018**

14F99 None of the above, but in this section

Alonso Tarrío, Leovigildo (*with* Jeremías López, Ana; Lipman, Joseph) Local homology and cohomology on schemes. (English summary) **98d:14028**
André, Yves[1] Pour une théorie inconditionnelle des motifs. [Toward an unconditional theory of motives] **98m:14022**
Bădescu, Lucian (*with* Schneider, Michael Hellmut) A criterion for extending meromorphic functions. **98d:14029**
Behrend, K. (*with* Fantechi, Barbara) The intrinsic normal cone. (English summary) **98e:14022**
Fantechi, Barbara *see* **Behrend, K., 98e:14022**
Huber, Annette ★ Mixed motives and their realization in derived categories. **98d:14030**
Jeremías López, Ana *see* **Alonso Tarrío, Leovigildo; et al., 98d:14028**
Kostant, Bertram Quantum cohomology of the flag manifold as an algebra of rational functions on a unipotent algebraic group. (English summary) **98h:14027**
Lauze, François Rang maximal pour $T_{\mathbf{P}^n}$. (English summary) [Maximal rank for $T_{\mathbf{P}^n}$] **98f:14016**
Lichtenbaum, Stephen Quasi-motives of curves. (English summary) **98i:14025**
Lipman, Joseph *see* **Alonso Tarrío, Leovigildo; et al., 98d:14028**
Oaku, Toshinori Algorithms for b-functions, restrictions, and algebraic local cohomology groups of D-modules. **98d:14031**
Pragacz, Piotr (*with* Ratajski, Jan) Polynomials homologically supported on degeneracy loci. **98d:14032**
Qin, Zhenbo (*with* Ruan, Yongbin) Quantum cohomology of projective bundles over $\mathbf{P}^n$. (English summary) **98k:14028**
Ratajski, Jan *see* **Pragacz, Piotr, 98d:14032**
Ruan, Yongbin *see* **Qin, Zhenbo, 98k:14028**
Schneider, Michael Hellmut *see* **Bădescu, Lucian, 98d:14029**
Voevodsky, V. Homology of schemes. **98c:14016**

Items with secondary classifications in 14F99

Chriss, Neil (*with* Ginzburg, V. A.) ★ Representation theory and complex geometry. (English summary) **98i:22021**
Gillet, H. (*with* Soulé, Christophe) Descent, motives and K-theory. **98d:14012**
Ginzburg, V. A. *see* **Chriss, Neil, 98i:22021**
Gross, Benedict H. On the motive of a reductive group. **98m:20060**
Kawazumi, Nariya (*with* Morita, Shigeyuki) The primary approximation to the cohomology of the moduli space of curves and cocycles for the stable characteristic classes. (English summary) **98c:14018**
Krasnov, V. A. Equivariant cohomology of a real algebraic surface and its applications. (Russian. Russian summary) **98d:14074**
Levine, Marc Lambda-operations, K-theory and motivic cohomology. (English summary) **98j:19004**
Morita, Shigeyuki *see* **Kawazumi, Nariya, 98c:14018**
Soulé, Christophe *see* **Gillet, H., 98d:14012**
Yokura, Shoji Homological Verdier-Radon functors on smooth varieties. **98a:32043**

14Gxx Arithmetic problems. Diophantine geometry [see also 11Dxx, 11Gxx]

14G05 Rationality questions, rational points

Abramovich, Dan Uniformity of stably integral points on elliptic curves. **98d:14033**
— Lang maps and Harris's conjecture. (English summary) **98j:14027**
Bach, Eric Weil bounds for singular curves. (English summary) **98d:14034**
Baragar, Arthur Rational curves on $K3$ surfaces in $\mathbf{P}^1 \times \mathbf{P}^1 \times \mathbf{P}^1$. (English summary) **98h:14028**
Moroz, B. Z. On the integer points of some toric varieties. **98g:14020**
Pacelli, Patricia L. Uniform boundedness for rational points. **98b:14020**
Skinner, C. M. Forms over number fields and weak approximation. (English summary) **98b:14021**
Vojta, Paul Integral points on subvarieties of semiabelian varieties. I. **98a:14034**
Zúñiga Galindo, W. A. Number of rational points of a singular curve. (English summary) **98k:14029**

Items with secondary classifications in 14G05

Adleman, Leonard M. (*with* Huang, Ming-Deh A.) Counting rational points on curves and abelian varieties over finite fields. (English summary) **98d:11070**
Batyrev, V. V. (*with* Tschinkel, Yu.) Height zeta functions of toric varieties. (English summary) **98b:11067**
Bilu, Yuri F. Limit distribution of small points on algebraic tori. **98m:11067**
Bremner, Andrew Some interesting curves of genus 2 to 7. (English summary) **98m:11066**
Caporaso, L. Counting rational points on algebraic curves. (English summary) **98i:11041**
Colliot-Thélène, Jean-Louis (*with* Skorobogatov, A. N.; Swinnerton-Dyer, H. P. F.) Double fibres and double covers: paucity of rational points. **98a:11081**
David, Sinnou Points de petite hauteur sur les courbes elliptiques. (English and French summaries) [Points of small height on elliptic curves] **98k:11067**
de Diego, Teresa Points rationnels sur les familles de courbes de genre au moins 2. (English and French summaries) [Rational points on families of curves of genus at least 2] **98k:11082**
Flynn, E. V. (*with* Poonen, Bjorn; Schaefer, Edward F.) Cycles of quadratic polynomials and rational points on a genus-2 curve. **98j:11048**
Harari, David Flèches de spécialisations en cohomologie étale et applications arithmétiques. (English and French summaries) [Specialization arrows in étale cohomology and arithmetical applications] **98j:14028**
Heath-Brown, D. R. The density of rational points on cubic surfaces. **98h:11083**
Huang, Ming-Deh A. *see* **Adleman, Leonard M., 98d:11070**
Jarden, Moshe (*with* Razon, Aharon) Rumely's local global principle for algebraic P$\mathscr{S}$C fields over rings. (English summary) **98d:11142**
Klassen, Matthew (*with* Tzermias, Pavlos) Algebraic points of low degree on the Fermat quintic. (English summary) **98k:11086**
Kreuzer, Martin (*with* Waldi, Rolf) On the Castelnuovo-Mumford regularity of a projective system. **98e:13016**
Lachaud, Gilles (*with* Tsfasman, M. A.) Formules explicites pour le nombre de points des variétés sur un corps fini. [Explicit formulas for the number of points of varieties over a finite field] **98m:11065**
Langmann, Klaus Picardexponent und rationale Punkte. [Picard exponent and rational points] **98c:11061**
Manin, Yuriĭ Ivanovich Distribution of rational points on Fano varieties. **98k:11089**
Morita, Yasuo Remarks on a conjecture of Batyrev and Manin. (English summary) **98k:14030**
Poonen, Bjorn *see* **Flynn, E. V.; et al., 98j:11048**
Poulakis, Dimitrios Integer points on algebraic curves with exceptional units. (English summary) **98k:11088**
Razon, Aharon *see* **Jarden, Moshe, 98d:11142**
Sato, Hisayoshi The order of the p-Selmer groups and the rank of elliptic curves. **98g:11065**
Schaefer, Edward F. *see* **Flynn, E. V.; et al., 98j:11048**
Skorobogatov, A. N. *see* **Colliot-Thélène, Jean-Louis; et al., 98a:11081**
Strauch, Matthias (*with* Tschinkel, Yu.) Height zeta functions of twisted products. (English summary) **98h:11084**
Swinnerton-Dyer, H. P. F. Diophantine equations: the geometric approach. **98b:11068**
— *see also* **Colliot-Thélène, Jean-Louis; et al., 98a:11081**
Szpiro, Lucien (*with* Ullmo, E.; Zhang, Shouwu) Équirépartition des petits points. [Uniform distribution of small points] **98i:14027**
Tschinkel, Yu. *see* **Batyrev, V. V., 98b:11067** *and* **Strauch, Matthias, 98h:11084**
Tsfasman, M. A. *see* **Lachaud, Gilles, 98m:11065**
Tzermias, Pavlos Torsion in Mordell-Weil groups of Fermat Jacobians. (English summary) **98b:11066**
— *see also* **Klassen, Matthew, 98k:11086**
Ullmo, E. *see* **Szpiro, Lucien; et al., 98i:14027**
Waldi, Rolf *see* **Kreuzer, Martin, 98e:13016**
Zhang, Shouwu *see* **Szpiro, Lucien; et al., 98i:14027**

14G10 Zeta-functions and related questions [see also 11G40] (Birch-Swinnerton-Dyer conjecture)

Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) On the ε-constants of a variety over a finite field. (English summary) **98e:14023**
Erez, Boas *see* **Chinburg, Ted; et al., 98e:14023**
Étesse, J.-Y. (*with* Le Stum, B.) Fonctions L associées aux F-isocristaux surconvergents. II. Zéros et pôles unités. (English and French summaries) [L-functions associated with superconvergent F-isocrystals. II. Unit roots and poles] **98a:14035**
Le Stum, B. *see* **Étesse, J.-Y., 98a:14035**
Pappas, Georgios *see* **Chinburg, Ted; et al., 98e:14023**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 98e:14023**

Items with secondary classifications in 14G10

Akiyama, Shigeki (*with* Tanigawa, Yoshio) Calculation of elliptic L functions in the critical strip. (Japanese) **98i:11042**
Batyrev, V. V. (*with* Tschinkel, Yu.) Height zeta functions of toric varieties. (English summary) **98b:11067**
Ben-Or, Michael Algebraic computation trees in characteristic $p > 0$ (extended abstract). (English summary) (*see* **98h:68008**)
Berndt, Rolf Joachim Kähler's computation of his zeta function for an arithmetic curve of degree two. **98g:11077**
Buhler, Joe (*with* Schoen, Chad; Top, Jaap) Cycles, L-functions and triple products of elliptic curves. (English summary) **98j:11049**
Deninger, Christopher Motivic L-functions and regularized determinants. II. **98h:11086**
— On extensions of mixed motives. (English summary) **98f:11069**
Faltings, Gerd The determinant of cohomology in etale topology. **98k:14023**
Goncharov, A. B. Deninger's conjecture of L-functions of elliptic curves at $s = 3$. **98c:19002**
Kings, Guido Extensions of motives of modular forms. **98j:11050**
Kon-No, Takuya Regulators and the Bloch-Beilinson conjectures. (Japanese) **98m:11070**
Morita, Yasuo Remarks on a conjecture of Batyrev and Manin. (English summary) **98k:14030**
Reimann, Harry ★ The semi-simple zeta function of quaternionic Shimura varieties. **98k:11076**
Schoen, Chad *see* **Buhler, Joe; et al., 98j:11049**
Tanigawa, Yoshio *see* **Akiyama, Shigeki, 98i:11042**
Terasoma, Tomohide Confluent hypergeometric functions and wild ramification. **98k:11080**
Top, Jaap *see* **Buhler, Joe; et al., 98j:11049**
Tschinkel, Yu. *see* **Batyrev, V. V., 98b:11067**
Tsunogai, Hiroshi On the Sato conjecture for QM-curves of genus two. **98e:11077**
Tsuzuki, Nobuo Introduction to Bloch-Kato conjecture. (Japanese) **98m:11071**
Veys, Willem Zeta functions for curves and log canonical models. **98k:11176**
van Wamelen, Paul On the CM character of the curves $y^2 = x^q - 1$. (English summary) **98e:11078**
Wildeshaus, Jörg On an elliptic analogue of Zagier's conjecture. **98d:11073**
Zhang, Shouwu Heights of Heegner cycles and derivatives of L-series. **98i:11044**
Zúñiga Galindo, W. A. Zeta functions and Cartier divisors on singular curves over finite fields. **98h:11080**
— Number of rational points of a singular curve. (English summary) **98k:14029**

14G15 Finite ground fields

Henocq, Thierry (*with* Rotillon, Denis) The theta divisor of a Jacobian variety and the decoding of geometric Goppa codes. (English summary) **98b:14022**
Rotillon, Denis *see* **Henocq, Thierry, 98b:14022**

Items with secondary classifications in 14G15

Bach, Eric Weil bounds for singular curves. (English summary) **98d:14034**
Berthelot, Pierre Finitude et pureté cohomologique en cohomologie rigide. [Finiteness and cohomological purity in rigid cohomology] **98j:14023**
Breuil, Christophe Topologie log-syntomique, cohomologie log-cristalline et cohomologie de Čech. (English and French summaries) [Log-syntomic topology, log-crystalline cohomology and Čech cohomology] **98d:14025**
Fuhrmann, Rainer (*with* Garcia, Arnaldo; Torres, Fernando) On maximal curves. (English summary) **98k:11077**
Garcia, Arnaldo *see* **Fuhrmann, Rainer; et al., 98k:11077**
Gonzàlez Rovira, Josep Hasse-Witt matrices for the Fermat curves of prime degree. (English summary) **98b:11064**
Goto, Yasuhiro The Artin invariant of supersingular weighted Delsarte $K3$ surfaces. **98f:14029**
— Arithmetic of weighted diagonal surfaces over finite fields. (English summary) **98a:11077**
Hansen, Søren Have ★ Rational points on curves over finite fields. **98k:11078**
Huang, Ming-Deh A. (*with* Ierardi, Doug) Counting points on curves over finite fields. (English summary) **98i:11040**
Ierardi, Doug *see* **Huang, Ming-Deh A., 98i:11040**
(de Jong, Aise Johan) *see* **Berthelot, Pierre, 98j:14023**
Kim, Daeyeoul *see* **Park, Hwa-Sin, 98k:11079**
Lachaud, Gilles (*with* Tsfasman, M. A.) Formules explicites pour le nombre de points des variétés sur un corps fini. [Explicit formulas for the number of points of varieties over a finite field] **98m:11065**
Lafforgue, Laurent Compactification de l'isogénie de Lang et dégénérescence des structures de niveau simple des chtoucas de Drinfeld. (English and French summaries) [Compactification of the Lang isogeny and degeneration of simple-level structures of Drinfel'd's shtukas] **98k:14069**
Park, Hwa-Sin (*with* Kim, Daeyeoul) Supersingular curves and sphere packings. **98k:11079**
Saïbi, Moussa Transformation de Fourier-Deligne sur les groupes unipotents. (English and French summaries) [Fourier-Deligne transform on unipotent groups] **98c:14014**
Stein, Andreas Equivalences between elliptic curves and real quadratic congruence function fields. (English and French summaries) **98d:11144**
Stepanov, S. A. Character sums, algebraic curves and Goppa codes. **98m:11135**
Torres, Fernando *see* **Fuhrmann, Rainer; et al., 98k:11077**
Tsfasman, M. A. *see* **Lachaud, Gilles, 98m:11065**
Vladuts, S. G. Secant spaces and Clifford's theorem over finite fields. (English summary) **98m:14028**
van der Vlugt, Marcel Surfaces and the weight distribution of a family of codes. (English summary) **98g:94042**
Xing, Chao Ping Cyclic elliptic curves over finite fields. (Chinese) **98c:11056**
Zúñiga Galindo, W. A. Number of rational points of a singular curve. (English summary) **98k:14029**

14G20 p-adic ground fields

Buium, Alexandru Differential characters and characteristic polynomial of Frobenius. **98b:14023**
Garuti, Marco A. Rigid geometry and Galois extensions of function fields in one variable. (English summary) **98h:14029**
— Prolongement de revêtements galoisiens en géométrie rigide. (English summary) [Extension of Galois coverings in rigid geometry] **98m:14023**
Ishida, Masa-Nori Convex sets in the p-adic open ball. (Japanese summary) **98b:14024**
Voloch, José Felipe Integrality of torsion points on abelian varieties over p-adic fields. **98a:14036**
— Distance functions on varieties over non-Archimedian local fields. **98g:14021**

Items with secondary classifications in 14G20

Berthelot, Pierre Finitude et pureté cohomologique en cohomologie rigide. [Finiteness and cohomological purity in rigid cohomology] **98j:14023**
Bertolin, Cristiana G-fonctions et cohomologie des hypersurfaces singulières. (English summary) [G-functions and cohomology of singular hypersurfaces] **98m:11064**

Bosch, Siegfried Component groups of abelian varieties and Grothendieck's duality conjecture. (English and French summaries) **98k:14061**
Breuil, Christophe Topologie log-syntomique, cohomologie log-cristalline et cohomologie de Čech. (English and French summaries) [Log-syntomic topology, log-crystalline cohomology and Čech cohomology] **98d:14025**
Dèbes, Pierre (*with* Douai, Jean-Claude) Algebraic covers: field of moduli versus field of definition. (English and French summaries) **98k:11081**
Douai, Jean-Claude *see* **Dèbes, Pierre**, **98k:11081**
Fresnel, Jean (*with* van der Put, Marius) Uniformisation des variétés abéliennes. (English and French summaries) [Uniformization of abelian varieties] **98a:14059**
Goglev, V. V. (*with* Yanchevskiĭ, V. I.) Two-primary torsion of Brauer groups of local elliptic curves with additive reduction. (Russian. English and Russian summaries) **98i:11038**
Ichikawa, Takashi Schottky uniformization theory on Riemann surfaces and Mumford curves of infinite genus. (English summary) **98e:14027**
(de Jong, Aise Johan) *see* **Berthelot, Pierre**, **98j:14023**
Langer, Andreas Selmer groups and torsion zero cycles on the selfproduct of a semistable elliptic curve. (English summary) **98g:11074**
Loeser, François Principe de Boyarsky et $\mathscr{D}$-modules. [Boyarsky principles and $\mathscr{D}$-modules] **98b:14017**
Mochizuki, Shinichi A theory of ordinary p-adic curves. **98h:11078**
Niziol, Wiesława Duality in the cohomology of crystalline local systems. (English summary) **98k:14026**
— On the image of p-adic regulators. **98a:14031**
van der Put, Marius *see* **Fresnel, Jean**, **98a:14059**
Ramero, L. Fourier transforms in geometry and arithmetic. (English summary) **98e:14017**
Tsuji, Takeshi Syntomic complexes and p-adic vanishing cycles. **98a:14032**
Van Steen, G. The p-adic finite Fourier transform and theta functions. **98m:14050**
Werner, Annette On Grothendieck's pairing of component groups in the semistable reduction case. **98j:14058**
Winkelmann, Jörg On discrete Zariski-dense subgroups of algebraic groups. (English summary) **98d:20052**
Yanchevskiĭ, V. I. Index reduction formulas for local hyperelliptic curves with poor reduction. (Russian. English and Russian summaries) **98m:11063**
— *see also* **Goglev, V. V.**, **98i:11038**

14G25 Global ground fields

Erné, Reinie The degree of an integral point in $\mathbf{P}^1$ minus a hypersurface. (English and French summaries) **98d:14035**
Harari, David Flèches de spécialisations en cohomologie étale et applications arithmétiques. (English and French summaries) [Specialization arrows in étale cohomology and arithmetical applications] **98j:14028**
Kim, Minhyong Geometric height inequalities and the Kodaira-Spencer map. (English summary) **98j:14029**
— On the Kodaira-Spencer map and stability. **98j:14030**
Morita, Yasuo Remarks on a conjecture of Batyrev and Manin. (English summary) **98k:14030**
Moriwaki, Atsushi Bogomolov conjecture over function fields for stable curves with only irreducible fibers. (English summary) **98d:14036**
Voskresenskiĭ, Valentin Evgen'evich Theory of invariants and Galois modules. **98g:14022**

Items with secondary classifications in 14G25

Abramovich, Dan Uniformity of stably integral points on elliptic curves. **98d:14033**
Beukers, Frits (*with* Zagier, Don) Lower bounds of heights of points on hypersurfaces. **98h:11082**
Bilu, Yuri F. Limit distribution of small points on algebraic tori. **98m:11067**
Bombieri, E. (*with* Zannier, Umberto) Heights of algebraic points on subvarieties of abelian varieties. **98j:11043**
Buhler, Joe (*with* Schoen, Chad; Top, Jaap) Cycles, L-functions and triple products of elliptic curves. (English summary) **98j:11049**
Buzzard, Kevin Integral models of certain Shimura curves. **98f:11064**
Call, Gregory S. (*with* Goldstine, Susan W.) Canonical heights on projective space. **98c:11060**
Colliot-Thélène, Jean-Louis The Hasse principle in a pencil of algebraic varieties. (English summary) **98g:11075**
— *see also* **Parimala, R.**, **98f:11067**
Darmon, Henri Faltings plus epsilon, Wiles plus epsilon, and the generalized Fermat equation. **98h:11034a**
— Corrigendum to: "Faltings plus epsilon, Wiles plus epsilon, and the generalized Fermat equation". **98h:11034b**
Dem'yanenko, V. A. On the torsion of elliptic curves. (Russian. English and Russian summaries) **98m:11048**
de Diego, Teresa Points rationnels sur les familles de courbes de genre au moins 2. (English and French summaries) [Rational points on families of curves of genus at least 2] **98k:11082**
Dreier, Roland Examples of genus 2 curves over $\mathbf{Q}$ with Jacobians of high Mordell-Weil rank. **98k:11083**
Gebel, J. (*with* Pethő, Attila; Zimmer, Horst Günter) On Mordell's equation. (English summary) **98m:11049**
Goldstine, Susan W. *see* **Call, Gregory S.**, **98c:11060**
Green, Barry Geometric families of constant reductions and the Skolem property. (English summary) **98k:11084**
Gubler, Walter Heights of subvarieties over M-fields. **98k:14032**
Guletskiĭ, V. I. Invariants of simple algebras over function fields of principal homogeneous spaces of numerical elliptic curves. (Russian. English and Russian summaries) **98k:11092**
Hashimoto, Ki-ichiro The structure of real multiplications connected with algebraic correspondences of algebraic curves of genus 2. (Japanese) **98a:14041**
Huber, Annette Mixed perverse sheaves for schemes over number fields. (English summary) **98k:14024**
Kollár, János Polynomials with integral coefficients, equivalent to a given polynomial. (English summary) **98g:11076**
Manduchi, E. Elliptic surfaces and a conjecture of Mazur. (English summary) **98d:11060**
McKean, Henry P. (*with* Moll, Victor) ★ Elliptic curves. (English summary) **98g:14032**
Mochizuki, Shinichi The profinite Grothendieck conjecture for closed hyperbolic curves over number fields. (English summary) **98a:11080**
Moll, Victor *see* **McKean, Henry P.**, **98g:14032**
Naito, Hirotada Local fields that generate trisection points of elliptic curves. (Japanese) **98j:11042**
Ono, Ken (*with* Ono, Takashi) Quadratic forms and elliptic curves. III. **98f:11060**
Ono, Takashi *see* **Ono, Ken**, **98f:11060**
Parimala, R. (*with* Sujatha, R.) Hasse principle for Witt groups of function fields with special reference to elliptic curves. **98f:11067**
Pedrini, Claudio Finiteness results for Chow groups of varieties over number fields. (English summary) **98j:14002**
Pethő, Attila (*with* Weis, Thomas; Zimmer, Horst Günter) Torsion groups of elliptic curves with integral j-invariant over general cubic number fields. (English summary) **98e:11069**
— *see also* **Gebel, J.; et al.**, **98m:11049**
Pink, Richard l-adic algebraic monodromy groups, cocharacters, and the Mumford-Tate conjecture. (English summary) **98m:11060**
Rajan, C. S. On the size of the Shafarevich-Tate group of elliptic curves over function fields. (English summary) **98b:11059**
Schlickewei, Hans Peter (*with* Wirsing, E.) Lower bounds for the heights of solutions of linear equations. **98k:11099**
Schoen, Chad *see* **Buhler, Joe; et al.**, **98j:11049**
Shafarevich, Igor' Rostislavovich On the arithmetic of singular $K3$-surfaces. **98h:14041**
Singerman, David (*with* Syddall, R. I.) Belyĭ uniformization of elliptic curves. (English summary) **98m:11053**
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Sun, Xiaotao Ramifications on arithmetic schemes. **98i:14026**
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— Height preserving linear transformations on semisimple K-algebras. (English summary) **98g:11129**
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14G27 Nonalgebraically closed ground fields

Items with secondary classifications in 14G27

Corti, Alessio Del Pezzo surfaces over Dedekind schemes. **98e:14037**

14G35 Modular and Shimura varieties [see also 11F41, 11F46, 11G18]

Abo, Hirotachi (*with* Sasakura, Nobuo; Terasoma, Tomohide) Quadratic residue graph and Shioda elliptic modular surface $S(4)$. **98d:14037**
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Sasakura, Nobuo *see* **Abo, Hirotachi; et al.**, **98d:14037**
Stamm, Hellmuth On the reduction of the Hilbert-Blumenthal-moduli scheme with $\Gamma_0(p)$-level structure. (English summary) **98h:14030**
Terasoma, Tomohide *see* **Abo, Hirotachi; et al.**, **98d:14037**
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Bayer, Pilar (*with* González Rovira, Josep) On the Hasse-Witt invariants of modular curves. (English summary) **98h:11074**
Brooks, Robert Wolfe (*with* Kopeliovich, Yaacov) Uniformization of some quotients of modular curves. (English summary) **98h:11075**
Faltings, Gerd Integrality of Tate-cycles. (English summary) **98i:14024**
González Rovira, Josep *see* **Bayer, Pilar**, **98h:11074**
Grundman, H. G. Hilbert modular varieties of Galois quartic fields. (English summary) **98c:11040**
Hamahata, Yoshinori Modular 3-folds obtained from quaternion unitary groups of degree 2. (English summary) **98k:11057**
Hasegawa, Yuji Some examples of modular QM-abelian surfaces. (Japanese) **98a:11075**
Hunt, Bruce ★ The geometry of some special arithmetic quotients. **98c:14033**
Ibukiyama, Tomoyoshi (*with* Onodera, F.) On the graded ring of modular forms of the Siegel paramodular group of level 2. **98j:11035**
Kon-No, Takuya Regulators and the Bloch-Beĭlinson conjectures. (Japanese) **98m:11070**
Kopeliovich, Yaacov *see* **Brooks, Robert Wolfe**, **98h:11075**
Kudla, Stephen S. Algebraic cycles on Shimura varieties of orthogonal type. **98e:11058**
Laumon, Gérard ★ Cohomology of Drinfeld modular varieties. Part I. **98c:11045a**
— ★ Cohomology of Drinfeld modular varieties. Part II. (English summary) **98c:11045b**
Lee, Min Ho[1] Mixed Hilbert modular forms and families of abelian varieties. **98g:11055**
Ogata, Shoetsu Generalized Hirzebruch's conjecture for Hilbert-Picard modular cusps. **98b:11053**
Onodera, F. *see* **Ibukiyama, Tomoyoshi**, **98j:11035**
Rapoport, Michael Non-Archimedean period domains. **98a:14060**

Reimann, Harry ★ The semi-simple zeta function of quaternionic Shimura varieties. **98k:11076**
Runge, Bernhard Picard modular surfaces. **98k:11059**
— On Picard modular forms. (English summary) **98a:11061**
Schmidt, Thomas A. Klein's cubic surface and a "non-arithmetic" curve. **98m:11036**
Takagi, Toshikazu The cuspidal class number formula for the modular curves $X_0(M)$ with M square-free. **98d:11066**
(Waldspurger, Jean-Loup) *see* **Laumon, Gérard, 98c:11045b**
Wildeshaus, Jörg ★ Realizations of polylogarithms. **98j:11045**

14G40 Arithmetic varieties and schemes; Arakelov theory

Berkovich, Vladimir G. Vanishing cycles for formal schemes. II. **98k:14031**
Gasbarri, C. Some topics in Arakelov theory of arithmetic surfaces. (English summary) **98f:14017**
Gubler, Walter Heights of subvarieties over M-fields. **98k:14032**
Maillot, Vincent Un théorème de Bernstein-Koushnirenko arithmétique. (English and French summaries) [An arithmetic Bernstein-Kushnirenko theorem] **98c:14017**
Nakashima, Tohru (*with* Takeda, Yuichiro) Chern classes of vector bundles on arithmetic varieties. (English summary) **98a:14037**
Sun, Xiaotao Ramifications on arithmetic schemes. **98i:14026**
Szpiro, Lucien Algebraic geometry over $\overline{\mathbf{Q}}$. **98k:14033**
— (*with* Ullmo, E.; Zhang, Shouwu) Équirépartition des petits points. [Uniform distribution of small points] **98i:14027**
Takeda, Yuichiro *see* **Nakashima, Tohru, 98a:14037**
Ullmo, E. *see* **Szpiro, Lucien; et al., 98i:14027**
Villamayor U., Orlando E. On smoothness and blowing ups of arithmetic schemes. **98k:14034**
Zhang, Shouwu *see* **Szpiro, Lucien; et al., 98i:14027**

Items with secondary classifications in 14G40

Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) Riemann-Roch type theorems for arithmetic schemes with a finite group action. **98e:14006**
David, Sinnou (*with* Philippon, Patrice) Minorations des hauteurs normalisées des sous-variétés de variétés abéliennes. (English and French summaries) [Lower bounds for the normalized heights of subvarieties of abelian varieties] **98j:11044**
Erez, Boas *see* **Chinburg, Ted; et al., 98e:14006**
Jeong, Sangtae Rational points on algebraic curves that change genus. (English summary) **98k:11085**
Manin, Yuriĭ Ivanovich Distribution of rational points on Fano varieties. **98k:11089**
Pappas, Georgios *see* **Chinburg, Ted; et al., 98e:14006**
Philippon, Patrice *see* **David, Sinnou, 98j:11044**
Tamvakis, Harry Bott-Chern forms and arithmetic intersections. (English summary) **98d:32035**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 98e:14006**
Zhang, Shouwu Heights of Heegner cycles and derivatives of L-series. **98i:11044**

14G99 None of the above, but in this section

Buium, Alexandru (*with* Voloch, José Felipe) Lang's conjecture in characteristic p: an explicit bound. **98a:14038**
Voloch, José Felipe *see* **Buium, Alexandru, 98a:14038**

14Hxx Curves

Items with secondary classifications in 14Hxx

Miyaoka, Yoichi (*with* Peternell, Thomas) ★ Geometry of higher-dimensional algebraic varieties. (English summary) **98g:14001**
Peternell, Thomas *see* **Miyaoka, Yoichi, 98g:14001**

14H05 Algebraic functions; function fields [see also 11R58]

Kucharz, Wojciech A characterization of the complex affine line. (English summary) **98b:14025**

Items with secondary classifications in 14H05

Corvaja, Pietro (*with* Zannier, Umberto) Arithmetic on infinite extensions of function fields. (Italian summary) **98j:11109**
Zannier, Umberto *see* **Corvaja, Pietro, 98j:11109**

14H10 Families, moduli (algebraic)

Ballico, Edoardo On the Picard group of the moduli scheme of stable curves in positive characteristic. (English summary) **98i:14028**
Chiantini, Luca (*with* Sernesi, E.) Nodal curves on surfaces of general type. **98b:14026**
El Mazouni, Abdelghani Quotient de la variété des points infiniment voisins d'ordre 9 sous l'action de PGL_3. (English and French summaries) [Quotient of the variety of infinitely near points of order 9 under the action of PGL_3] **98m:14024**
Evain, Laurent Calculs de dimensions de systèmes linéaires de courbes planes par collisions de gros points. (English and French summaries) [Dimensions of linear systems of plane curves and collisions of fat points] **98j:14032**
Faber, Carel Intersection-theoretical computations on $\overline{\mathcal{M}}_g$. **98j:14033**
Fulton, William (*with* Pandharipande, Rahul) Notes on stable maps and quantum cohomology. **98m:14025**
Getzler, E. Intersection theory on $\overline{\mathcal{M}}_{1,4}$ and elliptic Gromov-Witten invariants. (English summary) **98f:14018**
Greuel, Gert-Martin (*with* Lossen, Christoph) Equianalytic and equisingular families of curves on surfaces. (English summary) **98g:14023**
— (*with* Lossen, Christoph; Shustin, E. I.) Geometry of families of nodal curves on the blown-up projective plane. (English summary) **98j:14034**
de Jong, Aise Johan Families of curves and alterations. (English summary) **98f:14019**
Katsylo, P. Rationality of the moduli variety of curves of genus 3. (English summary) **98h:14031**
Kaufmann, Ralph Martin (*with* Manin, Yuriĭ Ivanovich; Zagier, Don) Higher Weil-Petersson volumes of moduli spaces of stable n-pointed curves. (English summary) **98i:14029**
Kawazumi, Nariya (*with* Morita, Shigeyuki) The primary approximation to the cohomology of the moduli space of curves and cocycles for the stable characteristic classes. (English summary) **98c:14018**
Lossen, Christoph *see* **Greuel, Gert-Martin, 98g:14023** *and* **98j:14034**
Manin, Yuriĭ Ivanovich *see* **Kaufmann, Ralph Martin; et al., 98i:14029**
McKernan, James Versality for canonical curves and complete intersections. **98g:14024**
Morita, Shigeyuki *see* **Kawazumi, Nariya, 98c:14018**
Pandharipande, Rahul The symmetric function $h^0(\overline{M}_{0,n}, \mathscr{L}_1^{\chi_1} \times \mathscr{L}_2^{\chi_2} \times \cdots \times \mathscr{L}_n^{\chi_n})$. **98m:14026**
— *see also* **Fulton, William, 98m:14025**
Sernesi, E. *see* **Chiantini, Luca, 98b:14026**
Shustin, E. I. *see* **Greuel, Gert-Martin; et al., 98j:14034**
Zagier, Don *see* **Kaufmann, Ralph Martin; et al., 98i:14029**

Items with secondary classifications in 14H10

Díaz, Steven (*with* Edidin, Dan) Towards the homology of Hurwitz spaces. (English summary) **98e:14028**
Edidin, Dan *see* **Díaz, Steven, 98e:14028**
Greuel, Gert-Martin (*with* Lossen, Christoph; Shustin, E. I.) New asymptotics in the geometry of equisingular families of curves. **98g:14039**
Ihara, Yasutaka (*with* Nakamura, Hiroaki) On deformation of maximally degenerate stable marked curves and Oda's problem. **98j:14040**
de Jong, Aise Johan Smoothness, semi-stability and alterations. **98e:14011**
Kato, Takao (*with* Keem, Changho; Ohbuchi, Akira) On triple coverings of irrational curves. (English summary) **98m:14031**
Kawazumi, Nariya Abelian differentials of the third kind and mapping class groups. (Japanese) (*see* **98e:00014**)
Keem, Changho *see* **Kato, Takao; et al., 98m:14031**
Looijenga, Eduard Prym representations of mapping class groups. (English summary) **98m:57002**
Lossen, Christoph *see* **Greuel, Gert-Martin; et al., 98g:14039**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Le schéma de Hilbert des courbes gauches localement Cohen-Macaulay n'est (presque) jamais réduit. (English summary) [The Hilbert scheme of locally Cohen-Macaulay space curves is (almost) never reduced] **98a:14003**
Morava, Jack Quantum generalized cohomology. (English summary) **98a:55008**
Nakamura, Hiroaki *see* **Ihara, Yasutaka, 98j:14040**
Ohbuchi, Akira *see* **Kato, Takao; et al., 98m:14031**
Oliveira, Gilvan (*with* Stöhr, Karl-Otto) Gorenstein curves with quasi-symmetric Weierstrass semigroups. (English summary) **98h:14035a**
— (*with* Stöhr, Karl-Otto) Moduli spaces of curves with quasi-symmetric Weierstrass gap sequences. (English summary) **98h:14035b**
Perrin, Daniel *see* **Martin-Deschamps, Mireille, 98a:14003**
Shokurov, Vyacheslav V. Algebraic curves and their Jacobians [MR 91i:14022]. (*see* **98i:14003**)
Shustin, E. I. *see* **Greuel, Gert-Martin; et al., 98g:14039**
Stöhr, Karl-Otto *see* **Oliveira, Gilvan, 98h:14035a** *and* **98h:14035b**
Tan, Sheng-Li On the invariants of base changes of pencils of curves. II. **98b:14004**

14H15 Families, moduli (analytic) [see also 30F10, 32Gxx]

Bauer, Michel (*with* Itzykson, Claude) Triangulations. (French) **98m:14027**
Eguchi, Tohru (*with* Hori, Kentaro; Xiong, Chuan-Sheng) Quantum cohomology and Virasoro algebra. (English summary) **98j:14035**
González-Aguilera, Víctor (*with* Rodríguez, Rubí E.) On principally polarized abelian varieties and Riemann surfaces associated to prisms and pyramids. (English summary) **98i:14030**
Hori, Kentaro *see* **Eguchi, Tohru; et al., 98j:14035**
Itzykson, Claude *see* **Bauer, Michel, 98m:14027**
Marshakov, A. V. (*with* Mironov, A. D.; Morozov, A. Yu.) WDVV equations from algebra of forms. (English summary) **98b:14027**
Mironov, A. D. *see* **Marshakov, A. V.; et al., 98b:14027**
Morozov, A. Yu. *see* **Marshakov, A. V.; et al., 98b:14027**
Ol'shanetskiĭ, M. A. Generalized Hitchin systems and the Knizhnik-Zamolodchikov-Bernard equation on elliptic curves. (English summary) **98j:14036**
Rodríguez, Rubí E. *see* **González-Aguilera, Víctor, 98i:14030**
Runge, Bernhard Level-two-structures and hyperelliptic curves. **98k:14035**
Simha, R. R. (*with* Srinivas, Vasudevan) Riemann surfaces. **98j:14037**
Srinivas, Vasudevan *see* **Simha, R. R., 98j:14037**
Xiong, Chuan-Sheng *see* **Eguchi, Tohru; et al., 98j:14035**

Items with secondary classifications in 14H15

Chekhov, L. O. Matrix model tools and geometry of moduli spaces. (English summary) **98h:81109**
Ichikawa, Takashi Theta constants and Teichmüller modular forms. (English summary) **98e:11060**
— Deformation of degenerate curves and automorphic functions on the Teichmüller space. **98a:32046**
Imayoshi, Yoichi (*with* Mabuchi, Toshiki) A Torelli-type theorem for stable curves. **98h:14010**
Kaufmann, Ralph Martin (*with* Manin, Yuriĭ Ivanovich; Zagier, Don) Higher Weil-Petersson volumes of moduli spaces of stable n-pointed curves. (English summary)

98i:14029
Kawazumi, Nariya Homology of hyperelliptic mapping class groups for surfaces. (English summary) **98k:57025**
Korotkin, D. (*with* Samtleben, H.) On the quantization of isomonodromic deformations on the torus. (English summary) **98h:32036**
Mabuchi, Toshiki *see* **Imayoshi, Yoichi**. **98h:14010**
Manin, Yurii Ivanovich *see* **Kaufmann, Ralph Martin; et al.**, **98i:14029**
Matone, Marco Nonperturbative model of Liouville gravity. (English summary) **98a:32027**
Natanzon, S. M. Real frames of complex algebraic curves, and Coxeter groups. (Russian) **98j:30057**
Poor, Cris (*with* Yuen, David S.) Relations on the period mapping giving extensions of mixed Hodge structures on compact Riemann surfaces. (English summary) **98g:32033**
Rubanov, Olga (*with* Yakubov, È. Kh.) On Teichmüller-Jacobian space and non-linear equations. **98h:58090**
Samtleben, H. *see* **Korotkin, D.**, **98h:32036**
Schuster, Peter M. Identifying variable points on a smooth curve. (English summary) **98i:32026**
Shokurov, Vyacheslav V. Algebraic curves and their Jacobians [MR 91i:14022]. (*see* 98i:14003)
Yakubov, È. Kh. *see* **Rubanov, Olga**, **98h:58090**
Yuen, David S. *see* **Poor, Cris**, **98g:32033**
Zagier, Don *see* **Kaufmann, Ralph Martin; et al.**, **98i:14029**

14H20 Singularities, local rings [see also 13Hxx]

A'Campo, Norbert (*with* Oka, Mutsuo[1]) Geometry of plane curves via Tschirnhausen resolution tower. **98d:14038**
Garcia, Arnaldo A note on relative dimensions of rings and conductors in function fields. (English summary) **98h:14032**
Oka, Mutsuo[1] Polynomial normal form of a plane curve with a given weight sequence. **98c:14019**
— *see also* **A'Campo, Norbert**, **98d:14038**
Pecker, Daniel Note sur la réalité des points doubles des courbes gauches. (English and French summaries) [Construction of real space curves with prescribed nodes] **98c:14020**
Peraire, Rosa Moduli of plane curve singularities with a single characteristic exponent. (English summary) **98e:14024**
Sertöz, A. Sinan Arf rings and characters. (English summary) **98d:14039**
Stevens, Jan On the classification of reducible curve singularities. **98e:14025**
Yang, Jin-Gen Sextic curves with simple singularities. (English summary) **98e:14026**

Items with secondary classifications in 14H20

Ballico, Edoardo On the number of components of the moduli schemes of stable torsion-free sheaves on integral curves. (English summary) **98d:14013**
Greuel, Gert-Martin (*with* Lossen, Christoph; Shustin, E. I.) Geometry of families of nodal curves on the blown-up projective plane. (English summary) **98j:14034**
Kang, Chunghyuk (*with* Kim, Sung-Yeon) Some examples of analytic irreducible plane curve singularities. **98a:32047**
— Some analytic irreducible plane curve singularities. **98a:32048**
Kang, Eunju On the corank of a Wahl map on smooth curves with a plane model. **98d:14043**
Kim, Sung-Yeon *see* **Kang, Chunghyuk**, **98a:32047**
Lossen, Christoph *see* **Greuel, Gert-Martin; et al.**, **98j:14034**
Mňuk, Michal An algebraic approach to computing adjoint curves. (English summary) **98f:14049**
Moriwaki, Atsushi Bogomolov conjecture for curves of genus 2 over function fields. **98e:14029**
Oka, Mutsuo[1] Two transforms of plane curves and their fundamental groups. **98f:14021**
Peraire, Rosa Tjurina number of a generic irreducible curve singularity. **98h:32059**
Roytwarf, N. (*with* Yomdin, Y.) Bernstein classes. (English and French summaries) **98h:34009a**
Schuster, Peter M. Identifying variable points on a smooth curve. (English summary) **98i:32026**
Shustin, E. I. *see* **Greuel, Gert-Martin; et al.**, **98j:14034**
Wall, C. T. C. Real rational quartic curves. **98k:57046**
Yomdin, Y. *see* **Roytwarf, N.**, **98h:34009a**
Zhang, Bin Sur les jacobiennes des courbes à singularités ordinaires. [Jacobians of curves with ordinary singularities] **98b:14028**

14H25 Arithmetic ground fields [see also 11Dxx, 11G05, 14Gxx]

Ichikawa, Takashi Schottky uniformization theory on Riemann surfaces and Mumford curves of infinite genus. (English summary) **98e:14027**
Vladuts, S. G. Secant spaces and Clifford's theorem over finite fields. (English summary) **98m:14028**

Items with secondary classifications in 14H25

Guletskiĭ, V. I. (*with* Yanchevskiĭ, V. I.) Ramification and reciprocity laws in Brauer groups of function fields of numerical curves of genus one. (Russian. Russian summary) **98a:13007**
Kim, Minhyong Geometric height inequalities and the Kodaira-Spencer map. (English summary) **98j:14029**
— On the Kodaira-Spencer map and stability. **98j:14030**
Mochizuki, Shinichi A version of the Grothendieck conjecture for p-adic local fields. **98g:11073**
Moriwaki, Atsushi Bogomolov conjecture over function fields for stable curves with only irreducible fibers. (English summary) **98d:14036**
Pethő, Attila (*with* Weis, Thomas; Zimmer, Horst Günter) Torsion groups of elliptic curves with integral j-invariant over general cubic number fields. (English summary) **98e:11069**
Poonen, Bjorn Computational aspects of curves of genus at least 2. (English summary) **98c:11059**
Weis, Thomas *see* **Pethő, Attila; et al.**, **98e:11069**
Yanchevskiĭ, V. I. *see* **Guletskiĭ, V. I.**, **98a:13007**
Zimmer, Horst Günter *see* **Pethő, Attila; et al.**, **98e:11069**

14H30 Coverings, fundamental group [see also 14E20, 14F35]

Artal Bartolo, E. Fundamental group of a class of rational cuspidal curves. **98f:14020**
Asada, Mamoru On a family of linear representations associated with Galois representations in the automorphism groups of pro-l fundamental groups. (English summary) **98h:14033**
Chaves, Gabriela Revêtements ramifiés de la droite projective complexe. [Ramified coverings of the complex projective line] **98j:14038**
Couveignes, Jean-Marc Quelques revêtements définis sur **Q**. (French summary) [Some coverings defined over **Q**] **98c:14021**
Diaz, Steven (*with* Edidin, Dan) Towards the homology of Hurwitz spaces. (English summary) **98e:14028**
Dolgopolova, O. B. Construction of all two-sheeted unlimited unramified coverings of a closed Riemann surface. (Russian. English and Russian summaries) **98a:14039**
Edidin, Dan *see* **Diaz, Steven**, **98e:14028**
Fan, Kwai-Man Direct product of free groups as the fundamental group of the complement of a union of lines. **98j:14039**
Ihara, Yasutaka (*with* Nakamura, Hiroaki) On deformation of maximally degenerate stable marked curves and Oda's problem. **98j:14040**
Kani, Ernst The number of curves of genus two with elliptic differentials. **98g:14025**
Kulikov, Vik. S. On plane algebraic curves of positive Albanese dimension. (Russian. Russian summary) **98i:14031**
— The irregularity of cyclic multiple plane curves. **98g:14026**
— On fundamental groups of complements to toric curves. (Russian. Russian summary) **98a:14040**
Nakamura, Hiroaki Galois representations in the profinite Teichmüller modular groups. **98k:14036**
— *see also* **Ihara, Yasutaka**, **98j:14040**
Oka, Mutsuo[1] Two transforms of plane curves and their fundamental groups. **98f:14021**

Items with secondary classifications in 14H30

Abhyankar, Shreeram S. Hilbert's thirteenth problem. (English and French summaries) **98i:12003**
— Projective polynomials. (English summary) **98a:12001**
— Polynomial expansion. (English summary) **98g:12003**
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Treibich, Armando Matrix elliptic solitons. **98m:14030**
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14H42 Theta functions; Schottky problem [see also 14K25, 32G20]

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A'Campo, Norbert (*with* Oka, Mutsuo[1]) Geometry of plane curves via Tschirnhausen resolution tower. **98d:14038**

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— (*with* Ellia, Philippe) On the equations defining quasicomplete intersection space curves. (English summary) **98k:14042**

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14H52 Elliptic curves [see also 11G05, 11G07, 14Kxx]

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14H55 Riemann surfaces; Weierstrass points; gap sequences [see also 30Fxx]

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14H60 Vector bundles on curves [see also 14F05]

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14H99 None of the above, but in this section

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Carroll, Robert Wayne (*with* Kodama, Yuji) Characterization and solution of the dispersionless Hirota equations. (English summary) **98c:58066**
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— ★ Traité des courbes spéciales remarquables planes et gauches. Tome II. (French) [Treatise on notable special plane and space curves. Vol. II] **98h:01034b**
— ★ Traité des courbes spéciales remarquables planes et gauches. Tome III. (French) [Treatise on notable special plane and space curves. Vol. III] **98h:01034c**
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14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx.}

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14J05 Picard group [see also 14C22, 19A49, 32L05]

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Keum, Jong Hae Erratum to: "Two extremal elliptic fibrations on Jacobian Kummer surfaces" [Manuscripta Math. **91** (1996), no. 3, 369–377; MR 97h:14053]. **98m:14038**

14J10 Families, moduli, classification: algebraic theory

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Andreatta, Marco (*with* Peternell, Thomas) On the limits of manifolds with nef canonical bundles. **98k:14047**
Chang, Mei-Chu On the Chern numbers of surfaces and 3-folds of codimension 2. **98f:14027**
Fantechi, Barbara (*with* Pardini, Rita) Automorphisms and moduli spaces of varieties with ample canonical class via deformations of abelian covers. (English summary) **98c:14028**
Kani, Ernst (*with* Schanz, Wolfgang) Diagonal quotient surfaces. (English summary) **98d:14048**
Kovács, Sándor J. Erratum: "Smooth families over rational and elliptic curves" [J. Algebraic Geom. **5** (1996), no. 2, 369–385; MR 97c:14035]. **98k:14048**
— On the minimal number of singular fibres in a family of surfaces of general type. **98h:14038**
— Families over a base with a birationally nef tangent bundle. **98h:14039**
Maeda, Takashi[1] On standard projective plane bundles. (English summary) **98k:14049**
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Items with secondary classifications in 14J10

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— Homological algebra and algebraic surfaces. **98m:14039**
(Chang, Mei-Chu) *see* **Liu, Xianfang, 98f:14031**
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Corti, Alessio Del Pezzo surfaces over Dedekind schemes. **98e:14037**
Gross, Mark The deformation space of Calabi-Yau n-folds with canonical singularities can be obstructed. **98a:14054**
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Manetti, Marco Iterated double covers and connected components of moduli spaces. **98h:14045**
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Robb, Arthur (*with* Teicher, Mina) Applications of braid group techniques to the decomposition of moduli spaces, new examples. (English summary) **98f:14030**
Roßberg, Daniel Kanonische Flächen mit $p_g = 5$, $q = 0$ und $K^2 = 11$, 12. (German summary) [Canonical surfaces with $p_g = 5$, $q = 0$ and $K^2 = 11$, 12] **98d:14051**
Summerer, Axel Globale Deformationen der Mannigfaltigkeiten $\mathbf{P}(T_{\mathbf{P}_2})$ und $\mathbf{P}_1 \times \mathbf{P}_2$. [Global deformations of manifolds $\mathbf{P}(T_{\mathbf{P}_2})$ and $\mathbf{P}_1 \times \mathbf{P}_2$] **98i:14013**
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14J15 Moduli, classification: analytic theory [see also 32G13, 32J15]

Items with secondary classifications in 14J15

Kovács, Sándor J. Erratum: "Smooth families over rational and elliptic curves" [J. Algebraic Geom. **5** (1996), no. 2, 369–385; MR 97c:14035]. **98k:14048**

14J17 Singularities of surfaces

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Jaffe, David B. (*with* Ruberman, Daniel) A sextic surface cannot have 66 nodes. **98m:14035**
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— The second pluri-genus of surface singularities. (English summary) **98k:14051**
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Zhang, De-Qi Normal algebraic surfaces with trivial tricanonical divisors. (English summary) **98k:14053**

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Kani, Ernst (*with* Schanz, Wolfgang) Diagonal quotient surfaces. (English summary) **98d:14048**
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14J20 Arithmetic ground fields [see also 11Dxx, 11G25, 11G35, 14Gxx]

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14J25 Special surfaces {For Hilbert modular surfaces, see 14G35.}

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Cynk, Sławomir (*with* Szemberg, Tomasz) Kummer configurations in $\mathbf{P}^5$. (English summary) **98k:14054**
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Holay, Sandeep H. Generators of ideals defining certain surfaces in projective space. (English summary) **98b:14031**
Mezzetti, Emilia (*with* Portelli, Dario) A tour through some classical theorems on algebraic surfaces. (English summary) **98m:14036**
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Ciliberto, Ciro *see* **Catanese, Fabrizio; et al., 98h:14043**
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Dolcetti, Alberto (*with* Ellia, Philippe) Curves on generic surfaces of high degree through a complete intersection in $\mathbf{P}^3$. (English summary) **98k:14043**
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Homma, Masaaki A combinatorial characterization of the Fermat cubic surface in characteristic 2. (English summary) **98g:14070**
Lanteri, Antonio (*with* Maeda, Hidetoshi) 2-very ampleness for adjoint bundles of ample and spanned vector bundles on surfaces. **98g:14050**
Maeda, Hidetoshi *see* **Lanteri, Antonio, 98g:14050**
Mendes Lopes, Margarida *see* **Catanese, Fabrizio; et al., 98h:14043**
Morgan, John W. (*with* Szabó, Zoltán) Embedded genus-2 surfaces in four-manifolds. **98k:57048**

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14J26 Rational and ruled surfaces

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— (*with* Purnaprajna, B. P.) Higher syzygies of elliptic ruled surfaces. **98c:14031**
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Fuller, Terry Distinguishing embedded curves in rational complex surfaces. (English summary) **98c:57035**
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— (*with* Kharlamov, Viatcheslav) Around real Enriques surfaces. (English summary) **98j:14049**
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Keum, Jong Hae Automorphisms of Jacobian Kummer surfaces. (English summary) **98e:14039**
— Erratum to: "Two extremal elliptic fibrations on Jacobian Kummer surfaces" [Manuscripta Math. **91** (1996), no. 3, 369–377; MR 97h:14053]. **98m:14038**
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— (*with* Ciliberto, Ciro; Mendes Lopes, Margarida) On the classification of irregular surfaces of general type with nonbirational bicanonical map. (English summary) **98h:14043**
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— (*with* Mendes Lopes, Margarida) On surfaces of general type with $K^2 = 2\chi - 2$ and nontrivial torsion. (English summary) **98h:14044**
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Noma, Atsushi Stability of Frobenius pull-backs of tangent bundles and generic injectivity of Gauss maps in positive characteristic. (English summary) **98f:14042**
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14J30 Special 3-folds [see also 14E05]

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Fukuma, Yoshiaki On polarized 3-folds (X, L) with $g(L) = q(X) + 1$ and $h^0(L) \geq 4$. (English summary) **98k:14006**
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Prokhorov, Yu. G. On extremal contractions from threefolds to surfaces: the case of one non-Gorenstein point. (English summary) **98j:14017**
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14J32 Calabi-Yau manifolds

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— (*with* Borisov, Lev A.) Dual cones and mirror symmetry for generalized Calabi-Yau manifolds. (English summary) **98b:14033**
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Brunner, Ilka (*with* Schimmrigk, Rolf) F-theory on Calabi-Yau fourfolds. (English summary) **98c:14035**
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Aldazabal, G. (*with* Font, Anamaría; Ibáñez, L. E.; Uranga, A. M.) String-string dualities in $D = 6, 4$ dimensions. (English summary) **98j:81239**
Avram, A. C. (*with* Derrick, E.; Jančić, D.) On semi-periods. (English summary) **98e:32037**
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Iskovskikh, V. A. (*with* Pukhlikov, A. V.) Birational automorphisms of multidimensional algebraic manifolds. **98e:14009**
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— *see also* **Iskovskikh, V. A., 98e:14009**
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14J50 Automorphisms of surfaces and higher-dimensional varieties [see also 14E09]

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14J60 Vector bundles on surfaces and higher-dimensional varieties [see also 14F05, 32Lxx]

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14J70 Hypersurfaces

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Kaliman, Shulim (*with* Makar-Limanov, Leonid) Affine algebraic manifolds without dominant morphisms from Euclidean spaces. (English summary) **98i:14042**
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Langer, Adrian Fano schemes of linear spaces on hypersurfaces. (English summary) **98g:14048**
Makar-Limanov, Leonid On the hypersurface $x + x^2y + z^2 + t^3 = 0$ in $\mathbf{C}^4$ or a $\mathbf{C}^3$-like threefold which is not $\mathbf{C}^3$. (English summary) **98a:14052**
Serpico, Maria Ezia An example of cubic hypersurface in $\mathbf{P}_6$ with 35 nodes. (Italian. English and Italian summaries) **98d:14001**
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14J99 None of the above, but in this section

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14Kxx Abelian varieties and schemes

14K02 Isogeny

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14K05 Algebraic theory

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14K10 Algebraic moduli, classification

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14K15 Arithmetic ground fields [see also 11Dxx, 11Fxx, 11Gxx, 14Gxx]

Buium, Alexandru Differential algebraic geometry and Diophantine geometry: an overview. **98g:14054**
Fresnel, Jean (*with* van der Put, Marius) Uniformisation des variétés abéliennes. (English and French summaries) [Uniformization of abelian varieties] **98a:14059**
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Imai, Hideo[2] On the universal norms of some abelian varieties over local fields. (English summary) **98m:14049**
Pillay, Anand ACFA and the Manin-Mumford conjecture. **98k:14063**
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Agboola, A. On p-adic height pairings and locally free classgroups of Hopf orders. **98k:11162**
Aoki, Noboru Torsion points on abelian varieties with complex multiplication. (English summary) **98e:11073**
Bertrand, Daniel Duality on tori and multiplicative dependence relations. (English summary) **98f:11070**
Bombieri, E. (*with* Zannier, Umberto) Heights of algebraic points on subvarieties of abelian varieties. **98j:11043**
Bosch, Siegfried Component groups of abelian varieties and Grothendieck's duality conjecture. (English and French summaries) **98k:14061**
Bost, Jean-Benoît Périodes et isogenies des variétés abéliennes sur les corps de nombres (d'après D. Masser et G. Wüstholz). (French summary) [Periods and isogenies of abelian varieties over number fields (after D. Masser and G. Wüstholz)] **98k:11073**
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Buzzard, Kevin Integral models of certain Shimura curves. **98f:11064**
Edixhoven, Bas (*with* Liu, Qing; Lorenzini, Dino) The p-part of the group of components of a Néron model. **98m:14051**
Krir, Mohamed Degré d'une extension de $\mathbf{Q}_p^{ur}$ sur laquelle $J_0(N)$ est semi-stable. (English and French summaries) [Degree of an extension of $\mathbf{Q}_p^{ur}$ on which $J_0(N)$ is semistable] **98g:11072**
Liu, Qing *see* **Edixhoven, Bas; et al.**, **98m:14051**
Lorenzini, Dino *see* **Edixhoven, Bas; et al.**, **98m:14051**
Masser, D. W. Specializations of endomorphism rings of abelian varieties. **98g:11070**
Pappas, Georgios On torsion line bundles and torsion points on abelian varieties. **98m:11059**
Waldschmidt, Michel Approximation diophantienne dans les groupes algébriques commutatifs. I. Une version effective du théorème du sous-groupe algébrique. (French summary) [Diophantine approximation in commutative algebraic groups. I. An effective version of the algebraic subgroup theorem] **98i:11053**
Zannier, Umberto *see* **Bombieri, E.**, **98j:11043**

14K20 Analytic theory; abelian integrals and differentials

Abe, Yukitaka Lefschetz type theorem. **98g:14055**
(Leites, D.) *see* **Prasolov, Viktor**, **98k:14064**
Prasolov, Viktor (*with* Solov'ev, Yuriĭ Pavlovich) ★ Elliptic functions and elliptic integrals. (English summary) **98k:14064**
Smirnov, A. O. On a class of elliptic solutions of the Boussinesq equation. (Russian. English and Russian summaries) **98j:14059**
Solov'ev, Yuriĭ Pavlovich *see* **Prasolov, Viktor**, **98k:14064**

Items with secondary classifications in 14K20

Adler, Allan Eisenstein and the Jacobian varieties of Fermat curves. (English summary) **98j:11047**
Akemann, Gernot Higher genus correlators for the Hermitian matrix model with multiple cuts. (English summary) **98j:81306**
Grinevich, P. G. (*with* Schmidt, Martin U.) Periodic preserving deformations of the finite-gap solutions of the soliton equations. (English summary) **98b:58072**
Koizumi, Shoji Remarks on K. Takase's paper: "A generalization of Rosenhain's normal form for hyperelliptic curves with an application" [Proc. Japan Acad. Ser. A Math. Sci. **72** (1996), no. 7, 162–165; MR 98a:14043]. **98g:14030**
Krichever, Igor Moiseevich (*with* Phong, D. H.) On the integrable geometry of soliton equations and $N = 2$ supersymmetric gauge theories. (English summary) **98b:58078**
Marini, Giambattista The K.P. hypothesis for decomposable abelian varieties. **98j:14042**
Phong, D. H. *see* **Krichever, Igor Moiseevich**, **98b:58078**
Pushkar', I. A. A multidimensional generalization of Il'yashenko's theorem on abelian integrals. (Russian. Russian summary) **98k:58183**
Schmidt, Martin U. *see* **Grinevich, P. G.**, **98b:58072**
(Takase, Koichi) *see* **Koizumi, Shoji**, **98g:14030**
Vanhaecke, Pol ★ Integrable systems in the realm of algebraic geometry. **98m:58069**

14K22 Complex multiplication [see also 11G15]

Oort, Frans Canonical liftings and dense sets of CM-points. **98g:14056**

Items with secondary classifications in 14K22

André, Yves[1] Une remarque à propos des cycles de Hodge de type CM. [A remark concerning Hodge cycles of CM type] **98f:14005**
Goren, Eyal Z. On certain reduction problems concerning abelian surfaces. **98m:14048**
Yoshihara, Hisao Existence of curves of genus three on a product of two elliptic curves. **98e:14046**

14K25 Theta functions

Taimanov, Iskander A. Secants of abelian varieties, theta functions and soliton equations. (Russian) **98e:14047**
Van Steen, G. The p-adic finite Fourier transform and theta functions. **98m:14050**

Items with secondary classifications in 14K25

Candilera, Maurizio (*with* Cristante, Valentino) Geometric aspects of the complex Heisenberg group. (Italian summary) **98b:22025**
Cristante, Valentino *see* **Candilera, Maurizio**, **98b:22025**
Dmitrieva, L. A. (*with* Kuperin, Yu. A.; Rudin, G. E.) Extended class of Dubrovin's equations related to the one-dimensional quantum three-body problem. (English summary) **98m:81200**
Hunt, Bruce ★ The geometry of some special arithmetic quotients. **98c:14033**
Kuperin, Yu. A. *see* **Dmitrieva, L. A.; et al.**, **98m:81200**
Marini, Giambattista The K.P. hypothesis for decomposable abelian varieties. **98j:14042**
Oxbury, W. M. (*with* Pauly, Christian; Previato, E.) Subvarieties of $\mathcal{SU}_C(2)$ and 2θ-divisors in the Jacobian. (English summary) **98m:14034**
Pauly, Christian *see* **Oxbury, W. M.; et al.**, **98m:14034**
Previato, E. *see* **Oxbury, W. M.; et al.**, **98m:14034**
Raina, Ashok K. An algebraic geometry view of a model quantum field theory on a curve. (English summary) **98m:14029**
Rudin, G. E. *see* **Dmitrieva, L. A.; et al.**, **98m:81200**
Runge, Bernhard Level-two-structures and hyperelliptic curves. **98k:14035**
Werner, Annette Local heights on abelian varieties with split multiplicative reduction. (English summary) **98c:14039**
Yoshida, Masaaki ★ Hypergeometric functions, my love. **98k:33024**

14K30 Picard schemes, higher Jacobians [see also 14H40, 32G20]

Items with secondary classifications in 14K30

Collino, A. Griffiths' infinitesimal invariant and higher K-theory on hyperelliptic Jacobians. **98m:14010**

Iliev, Atanas The theta divisor of bidegree (2, 2) threefold in $\mathbf{P}^2 \times \mathbf{P}^2$. (English summary) **98k:14007**

14K99 None of the above, but in this section

Items with secondary classifications in 14K99

Bauer, Thomas (*with* Szemberg, Tomasz) Higher order embeddings of abelian varieties. **98a:14009**

Bavard, Christophe Systole et invariant d'Hermite. [Systole and Hermite invariant] **98a:11085**

Kimura, Shun-ichi (*with* Vistoli, Angelo) Chow rings of infinite symmetric products. **98a:14005**

Marker, David (*with* Messmer, M.; Pillay, Anand) ★ Model theory of fields. **98m:03075**

Messmer, M. *see* **Marker, David; et al., 98m:03075**

Pillay, Anand *see* **Marker, David; et al., 98m:03075**

Szemberg, Tomasz *see* **Bauer, Thomas, 98a:14009**

Vistoli, Angelo *see* **Kimura, Shun-ichi, 98a:14005**

14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45.}

14L05 Formal groups, p-divisible groups [see also 55N22]

Abrashkin, V. A. Explicit formulas for the Hilbert symbol of a formal group over Witt vectors. (Russian. Russian summary) **98j:14060**

Nakamura, Tetsuo[1] On characteristic polynomials of formal groups over finite fields. (English summary) **98i:14045**

Rapoport, Michael Non-Archimedean period domains. **98a:14060**

Sekiguchi, Tsutomu (*with* Suwa, Noriyuki) A note on extensions of algebraic and formal groups. III. (English summary) **98g:14057**

Strickland, Neil P. Finite subgroups of formal groups. (English summary) **98k:14065**

Suwa, Noriyuki *see* **Sekiguchi, Tsutomu, 98g:14057**

Items with secondary classifications in 14L05

Benois, Denis Périodes p-adiques et lois de réciprocité explicites. [p-adic periods and explicit reciprocity laws] **98m:11128**

Lazarev, A. Yu. Deformations of formal groups and stable homotopy theory. **98d:55007**

Li, Hua-Chieh p-adic dynamical systems and formal groups. **98a:11163**

— Isogenies between dynamics of formal groups. **98a:11164**

Smirnov, A. L. Isogenies of height one and filtrations of formal groups. (English summary) **98a:11165**

Wach, Nathalie Représentations p-adiques potentiellement cristallines. (English and French summaries) [Potentially crystalline p-adic representations] **98b:11119**

— Représentations cristallines de torsion. (English summary) [Torsion crystalline representations] **98j:11112**

14L10 Group varieties

Chernousov, V. I. *see* **Platonov, V. P., 98j:14061**

Merkur'ev, A. S. R-equivalence and rationality problem for semisimple adjoint classical algebraic groups. (English summary) **98d:14055**

Platonov, V. P. (*with* Chernousov, V. I.) On the rationality problem for group varieties. (Russian) **98j:14061**

Wüstholz, Gisbert Computations on commutative group varieties. **98j:14062**

Items with secondary classifications in 14L10

Caveny, Deanna M. Commutative algebraic groups and refinements of the Gelfond-Feldman measure. (English summary) **98a:11093**

Philippon, Patrice Nouveaux lemmes de zéros dans les groupes algébriques commutatifs. (English summary) [New zero estimates in commutative algebraic groups] **98a:11092**

14L15 Group schemes

Abrams, William P. Representations of the group scheme $\mathrm{Aut}(W_n)$. **98e:14048**

Bendel, Christopher P. *see* **Suslin, A. A.; et al., 98h:14055b** *and* **98h:14055c**

Deligne, P. Extensions centrales de groupes algébriques simplement connexes et cohomologie galoisienne. [Central extensions of simply connected algebraic groups and Galois cohomology] **98d:14056**

Edixhoven, Bas (*with* Liu, Qing; Lorenzini, Dino) The p-part of the group of components of a Néron model. **98m:14051**

Friedlander, Eric M. (*with* Suslin, A. A.) Cohomology of finite group schemes over a field. **98h:14055a**

— *see also* **Suslin, A. A.; et al., 98h:14055b** *and* **98h:14055c**

Liu, Qing *see* **Edixhoven, Bas; et al., 98m:14051**

Lorenzini, Dino *see* **Edixhoven, Bas; et al., 98m:14051**

Suslin, A. A. (*with* Friedlander, Eric M.; Bendel, Christopher P.) Infinitesimal 1-parameter subgroups and cohomology. **98h:14055b**

— (*with* Friedlander, Eric M.; Bendel, Christopher P.) Support varieties for infinitesimal group schemes. **98h:14055c**

— *see also* **Friedlander, Eric M., 98h:14055a**

Items with secondary classifications in 14L15

Sekiguchi, Tsutomu *see* **Suwa, Noriyuki, 98d:11139**

Suwa, Noriyuki (*with* Sekiguchi, Tsutomu) Théorie de Kummer-Artin-Schreier et applications. [Kummer-Artin-Schreier theory and applications] **98d:11139**

14L17 Affine algebraic groups, hyperalgebra constructions [see also 17B45, 18D35]

Items with secondary classifications in 14L17

Harder, G. Wittvektoren. [Witt vectors] **98e:13025**

Katz, Nicholas Correction to: "On the monodromy groups attached to certain families of exponential sums" [Duke Math. J. **54** (1987), no. 1, 41–56; MR 88i:11053]. **98c:20089**

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Yagita, Nobuaki *see* **Peterson, Chariya P., 98c:20089**

14L27 Automorphism groups [see also 14E09]

Items with secondary classifications in 14L27

Kurth, Alexandre SL_2-equivariant polynomial automorphisms of the binary forms. (English summary) **98e:14049**

— Nonlinear equivariant automorphisms. (English summary) **98j:14064**

Lochak, Pierre (*with* Nakamura, Hiroaki; Schneps, Leila) On a new version of the Grothendieck-Teichmüller group. (English and French summaries) **98h:20065**

Nakamura, Hiroaki *see* **Lochak, Pierre; et al., 98h:20065**

Schneps, Leila *see* **Lochak, Pierre; et al., 98h:20065**

14L30 Group actions on varieties or schemes (quotients) [see also 14D25]

Arzhantsev, I. V. Actions of the group SL_2 that are of complexity one. (Russian. Russian summary) **98g:14058**

Bialynicki-Birula, A. (*with* Święcicka, J.) A combinatorial approach to geometric invariant theory. **98k:14066**

Brion, Michel Differential forms on quotients by reductive group actions. (English summary) **98k:14067**

Deveney, James K. (*with* Finston, David R.) On locally trivial $\mathbf{G}_a$-actions. (English summary) **98h:14056**

Edidin, Dan (*with* Graham, William A.) Algebraic cuts. (English summary) **98j:14063**

Finston, David R. (*with* Walcher, Sebastian) Centralizers of locally nilpotent derivations. (English summary) **98d:14057**

— *see also* **Deveney, James K., 98h:14056**

Freudenburg, Gene Actions of $\mathbf{G}_a$ on $\mathbf{A}^3$ defined by homogeneous derivations. (English summary) **98k:14068**

Graham, William A. *see* **Edidin, Dan, 98j:14063**

Jurkiewicz, Jerzy Maciej (*with* Konarski, Jerzy) On linearizing $\mathbf{C}^*$ and Z_2 actions of degree 3 on 3-spaces. (English summary) **98h:14057**

Kaliman, Shulim (*with* Koras, M.; Makar-Limanov, Leonid; Russell, Peter) $\mathbf{C}^*$-actions on $\mathbf{C}^3$ are linearizable. (English summary) **98i:14046**

Konarski, Jerzy *see* **Jurkiewicz, Jerzy Maciej, 98h:14057**

Koras, M. *see* **Kaliman, Shulim; et al., 98i:14046**

Kurth, Alexandre SL_2-equivariant polynomial automorphisms of the binary forms. (English summary) **98e:14049**

— Nonlinear equivariant automorphisms. (English summary) **98j:14064**

Lafforgue, Laurent Compactification de l'isogénie de Lang et dégénérescence des structures de niveau simple des chtoucas de Drinfeld. (English and French summaries) [Compactification of the Lang isogeny and degeneration of simple-level structures of Drinfel'd's shtukas] **98k:14069**

Makar-Limanov, Leonid *see* **Kaliman, Shulim; et al., 98i:14046**

Masuda, Kayo Equivariant algebraic vector bundles over a product of affine varieties. **98a:14061**

Ochiai, Hiroyuki Quotients of some prehomogeneous vector spaces. (English summary) **98g:14059**

Popov, Vladimir Leonidovich Sections in invariant theory. **98d:14058**

Russell, Peter *see* **Kaliman, Shulim; et al., 98i:14046**

Shmel'kin, D. A. On disconnected simple linear groups with a free algebra of invariants. (Russian. Russian summary) **98c:14040**

Springer, Tonny A. A combinatorial result on K-orbits on a flag manifold. **98d:14059**

Święcicka, J. *see* **Bialynicki-Birula, A., 98k:14066**

Timashëv, D. A. Classification of G-manifolds of complexity 1. (Russian. Russian summary) **98h:14058**

Vinberg, Èrnest Borisovich On invariants of a set of matrices. (English summary) **98b:14036**

Walcher, Sebastian *see* **Finston, David R., 98d:14057**

Items with secondary classifications in 14L30

Bongartz, Klaus On degenerations and extensions of finite-dimensional modules. (English summary) **98e:16012**

Brennan, Joseph P. Invariant theory in characteristic p: Hazlett's symbolic method for binary quantics. (English summary) **98h:13006**

Buhler, Joe (*with* Reichstein, Zinovy) On the essential dimension of a finite group. (English summary) **98e:12004**

Chinburg, Ted (*with* Erez, Boas; Pappas, Georgios; Taylor, Martin J.) Riemann-Roch type theorems for arithmetic schemes with a finite group action. **98e:14006**

Daigle, Daniel A necessary and sufficient condition for triangulability of derivations of $k[X, Y, Z]$. (English summary) **98c:13012**

Daszkiewicz, Andrzej (*with* Przebinda, Tomasz) On the moment map of a multiplicity free action. **98b:22027**

Derksen, Harm (*with* Kraft, Hanspeter) Constructive invariant theory. (English and French summaries) **98m:13010**
Edidin, Dan (*with* Graham, William A.) Characteristic classes in the Chow ring. **98m:14007**
El Mazouni, Abdelghani Quotient de la variété des points infiniment voisins d'ordre 9 sous l'action de PGL_3. (English and French summaries) [Quotient of the variety of infinitely near points of order 9 under the action of PGL_3] **98m:14024**
Erez, Boas *see* **Chinburg, Ted; et al., 98e:14006**
Faltings, Gerd Explicit resolution of local singularities of moduli-spaces. **98c:14043**
Graham, William A. *see* **Edidin, Dan, 98m:14007**
Guan, Zhuang Dan Toward a classification of almost homogeneous manifolds. I. Linearization of the singular extremal rays. **98i:14037**
Guralnick, Robert M. (*with* Liebeck, Martin W.; Macpherson, Dugald; Seitz, Gary M.) Modules for algebraic groups with finitely many orbits on subspaces. **98j:20058**
Ito, Yukari (*with* Reid, Miles) The McKay correspondence for finite subgroups of $SL(3, \mathbf{C})$. (English summary) **98i:14018**
de Jong, Aise Johan Families of curves and alterations. (English summary) **98f:14019**
Kraft, Hanspeter *see* **Derksen, Harm, 98m:13010**
Liebeck, Martin W. *see* **Guralnick, Robert M.; et al., 98j:20058**
Littelmann, Peter An effective method to classify nilpotent orbits. **98a:20041**
Macpherson, Dugald *see* **Guralnick, Robert M.; et al., 98j:20058**
Makar-Limanov, Leonid On the hypersurface $x + x^2y + z^2 + t^3 = 0$ in $\mathbf{C}^4$ or a $\mathbf{C}^3$-like threefold which is not $\mathbf{C}^3$. (English summary) **98a:14052**
Merkur'ev, A. S. (*with* Panin, I. A.; Wadsworth, Adrian R.) Index reduction formulas for twisted flag varieties. I. (English summary) **98c:16018**
Osetinskiĭ, N. I. *see* **Vainstein, F. S., 98a:93014**
Panin, I. A. *see* **Merkur'ev, A. S.; et al., 98c:16018**
Pappas, Georgios *see* **Chinburg, Ted; et al., 98e:14006**
Przebinda, Tomasz *see* **Daszkiewicz, Andrzej, 98b:22027**
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Reid, Miles *see* **Ito, Yukari, 98i:14018**
Saxl, Jan (*with* Seitz, Gary M.) Subgroups of algebraic groups containing regular unipotent elements. **98m:20057**
Seitz, Gary M. *see* **Guralnick, Robert M.; et al., 98j:20058** *and* **Saxl, Jan, 98m:20057**
Skowroński, Andrzej (*with* Zwara, Grzegorz) On degenerations of modules with nondirecting indecomposable summands. (English summary) **98a:16021**
Smirnov, A. L. Torus schemes over a discrete valuation ring. (Russian. Russian summary) **98a:14068**
Taylor, Martin J. *see* **Chinburg, Ted; et al., 98e:14006**
Totaro, Burt Tensor products of semistables are semistable. **98k:14014**
Vainstein, F. S. (*with* Osetinskiĭ, N. I.) On an invariant analysis of a class of linear controlled systems. (Russian. Russian summary) **98a:93014**
Van den Bergh, Michel Modules of covariants. **98e:13012**
Voskuil, Harm On the action of the unitary group on the projective plane over a local field. (English summary) **98c:20093**
Wadsworth, Adrian R. *see* **Merkur'ev, A. S.; et al., 98c:16018**
Zwara, Grzegorz Degenerations in the module varieties of generalized standard Auslander-Reiten components. **98a:16022**
— *see also* **Skowroński, Andrzej, 98a:16021**

14L35 Classical groups (geometric aspects) [see also 20Gxx, 51N30]

Le Bruyn, Lieven Nilpotent representations. (English summary) **98k:14070**

14L40 Other algebraic groups (geometric aspects)

Items with secondary classifications in 14L40

Kajimoto, Hiroshi The Poincaré duality and the Gysin homomorphism for flag manifolds. (English summary) **98i:57071**

14L99 None of the above, but in this section

Kunyavskiĭ, B. È. (*with* Sansuc, Jean-Jacques) Un problème inverse pour la réduction des groupes algébriques commutatifs. (English and French summaries) [An inverse problem for the reduction of commutative algebraic groups] **98b:14037**
Sansuc, Jean-Jacques *see* **Kunyavskiĭ, B. È., 98b:14037**

Items with secondary classifications in 14L99

Barry, Michael J. J. Generalized Levi factor actions on the Lie algebra of an algebraic group. (English summary) **98k:17022**

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [see also 13C14, 13F45, 13H10]

Migliore, Juan C. (*with* Peterson, Christopher S.) A construction of codimension three arithmetically Gorenstein subschemes of projective space. (English summary) **98d:14060**
Paxia, G. (*with* Ragusa, A.) Generic quadric sections of irreducible Buchsbaum curves. (English summary) **98j:14065**
Peterson, Christopher S. *see* **Migliore, Juan C., 98d:14060**
Ragusa, A. *see* **Paxia, G., 98j:14065**

Items with secondary classifications in 14M05

Beorchia, Valentina (*with* Ellia, Philippe) On the equations defining quasicomplete intersection space curves. (English summary) **98k:14042**
Campillo, Antonio (*with* Giménez, Philippe) Graphes arithmétiques et syzygies. (English and French summaries) [Arithmetic graphs and syzygies] **98a:13021**
Catanese, Fabrizio Homological algebra and algebraic surfaces. **98m:14039**
Ellia, Philippe *see* **Beorchia, Valentina, 98k:14042**
Geramita, Anthony V. (*with* Pucci, Mario; Shin, Yongsu) Smooth points of $\mathcal{G}or(T)$. (English summary) **98m:13031**
Giménez, Philippe *see* **Campillo, Antonio, 98a:13021**
Giuffrida, S. (*with* Maggioni, R.; Ragusa, A.) Resolutions of generic points lying on a smooth quadric. (English summary) **98d:13011**
Maggioni, R. *see* **Giuffrida, S.; et al., 98d:13011**
Martin-Deschamps, Mireille (*with* Perrin, Daniel) Le schéma de Hilbert des courbes gauches localement Cohen-Macaulay n'est (presque) jamais réduit. (English summary) [The Hilbert scheme of locally Cohen-Macaulay space curves is (almost) never reduced] **98a:14003**
Méguin, Frédéric Triple structures on smooth surfaces of $\mathbf{P}_4$. (English and French summaries) **98c:14041**
Migliore, Juan C. (*with* Peterson, Christopher S.; Pitteloud, Yves) Ropes in projective space. **98a:14044**
Miyazaki, Chikashi (*with* Vogel, Wolfgang) Bounds on cohomology and Castelnuovo-Mumford regularity. **98g:13016**
Perrin, Daniel *see* **Martin-Deschamps, Mireille, 98a:14003**
Peterson, Christopher S. *see* **Migliore, Juan C.; et al., 98a:14044**
Pitteloud, Yves *see* **Migliore, Juan C.; et al., 98a:14044**
Pucci, Mario *see* **Geramita, Anthony V.; et al., 98m:13031**
Ragusa, A. *see* **Giuffrida, S.; et al., 98d:13011**
Shin, Yongsu *see* **Geramita, Anthony V.; et al., 98m:13031**
Vogel, Wolfgang *see* **Miyazaki, Chikashi, 98g:13016**

14M06 Linkage [see also 13C40]

Peterson, Christopher S. Monomial curves and schemes supported on lines. **98d:14061**

Items with secondary classifications in 14M06

Catanese, Fabrizio Homological algebra and algebraic surfaces. **98m:14039**
Guarrera, Silvia (*with* Logar, Alessandro; Mezzetti, Emilia) An algorithm for computing minimal curves. (English summary) **98a:14046**
Johnson, Mark Ray Linkage and sums of ideals. (English summary) **98h:13015**
Logar, Alessandro *see* **Guarrera, Silvia; et al., 98a:14046**
Mezzetti, Emilia *see* **Guarrera, Silvia; et al., 98a:14046**
Nollet, Scott Smooth curves linked to thick curves. (English summary) **98h:14034**
Shin, Yongsu A Gorenstein ideal of codimension 4. **98c:13027**

14M07 Low codimension problems [see also 14Cxx]

Amerik, Ekaterina On codimension-two subvarieties of hypersurfaces. **98a:14062**

Items with secondary classifications in 14M07

Beorchia, Valentina (*with* Ellia, Philippe) On the equations defining quasicomplete intersection space curves. (English summary) **98k:14042**
de Cataldo, Mark Andrea A. Some adjunction-theoretic properties of codimension two non-singular subvarieties of quadrics. (English summary) **98k:14005**
Ellia, Philippe *see* **Beorchia, Valentina, 98k:14042**
Geramita, Anthony V. (*with* Shin, Yongsu; Pucci, Mario) Smooth points of $\mathrm{Gor}(T)$. **98a:13034**
Kumar, N. Mohan Construction of rank two vector bundles on $\mathbf{P}^4$ in positive characteristic. **98j:14055**
Pucci, Mario *see* **Geramita, Anthony V.; et al., 98a:13034**
Shin, Yongsu *see* **Geramita, Anthony V.; et al., 98a:13034**

14M10 Complete intersections [see also 13C40]

Braun, Robert (*with* Müller-Stach, Stefan) Effective bounds for Nori's connectivity theorem. (English summary) **98g:14060**
Fang, Fuquan Topology of complete intersections. (English summary) **98k:14071**
Landsberg, J. M. Differential-geometric characterizations of complete intersections. (English summary) **98d:14062**
Méguin, Frédéric Triple structures on smooth surfaces of $\mathbf{P}_4$. (English and French summaries) **98c:14041**
Müller-Stach, Stefan *see* **Braun, Robert, 98g:14060**
Szabó, Endre Complete intersection subvarieties of general hypersurfaces. (English summary) **98g:14061**

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14M12 Determinantal varieties [see also 13C40]

Boudhraa, Zineddine Resolution of singularities of determinantal rings. (English summary) **98a:14063**

Giacobazzi, Lorena Determinantal representation of a class of surfaces. (English summary) **98g:14062**

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14M15 Grassmannians, Schubert varieties, flag manifolds [see also 32M10, 51M35]

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14M20 Rational varieties

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— (*with* Brasselet, Jean-Paul; Fieseler, Karl-Heinz; Kaup, Ludger) Diviseurs invariants et homomorphisme de Poincaré de variétés toriques complexes. (English and French summaries) [Invariant divisors and Poincaré homomorphism of complex toric varieties] **98c:14044**
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— (*with* Tschinkel, Yu.) Height zeta functions of toric varieties. (English summary) **98b:11067**
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14M30 Supervarieties [see also 14A22, 32C11, 58A50]

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14N05 Projective techniques [see also 51N35]

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Cossidente, Antonio *see* **Ballico, Edoardo, 98g:14069**
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— *see also* **Ballico, Edoardo, 98k:14019**
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Meurer, Paul The number of rational quartics on Calabi-Yau hypersurfaces in weighted projective space $\mathbf{P}(2, 1^4)$. (English summary) **98a:14070**
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— Counting elliptic plane curves with fixed j-invariant. (English summary) **98h:14068**
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Audin, Michèle Cohomologie quantique. (French summary) [Quantum cohomology] **98h:58031**
Bertram, Aaron Quantum Schubert calculus. **98j:14067**
Deligne, P. Local behavior of Hodge structures at infinity. (English summary) **98a:14015**
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Fulton, William (*with* Pandharipande, Rahul) Notes on stable maps and quantum cohomology. **98m:14025**
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Getzler, E. Intersection theory on $\overline{\mathcal{M}}_{1,4}$ and elliptic Gromov-Witten invariants. (English summary) **98f:14018**
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Hosono, S. (*with* Klemm, Albrecht Otto; Theisen, Stefan) An extended lecture on mirror symmetry [MR 96f:32055]. (*see* **98c:00015**)
Ionel, Eleny-Nicoleta (*with* Parker, Thomas H.) The Gromov invariants of Ruan-Tian and Taubes. **98i:58038**
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Johnsen, Trygve (*with* Kleiman, Steven L.) Rational curves of degree at most 9 on a general quintic threefold. (English summary) **98c:14034**
Kaufmann, Ralph Martin The intersection form in $\mathcal{H}^*(\overline{\mathcal{M}}_{0n})$ and the explicit Künneth formula in quantum cohomology. **98c:14006**
Kleiman, Steven L. (*with* Lipman, Joseph; Ulrich, Bernd) The multiple-point schemes of a finite curvilinear map of codimension one. (English summary) **98a:14002**
— *see also* **Johnsen, Trygve, 98c:14034**
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Kontsevich, M. L. Mirror symmetry in dimension 3. (English summary) **98a:14055**
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Tian, Gang Quantum cohomology and its associativity. **98k:58031**
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Items with secondary classifications in 14N99

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14Pxx Real algebraic and real analytic geometry

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(Alonso, M. E.) *see* **Real algebraic and analytic geometry, 98g:14002**
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14P05 Real algebraic sets [see also 12Dxx]

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Fujimura, Masayo Singular parts of moduli spaces for cubic polynomials and quadratic rational maps. (*see* **98h:00039**)
González-Vega, Laureano (*with* Lombardi, Henri; Mahé, Louis) Virtual roots of real polynomials. (English summary) **98k:14077**
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Kocel-Cynk, Beata Estimation of the length of a curve joining two points in a connected component of an algebraic surface in $\mathbf{R}^3$. (English summary) **98a:14072**
Krasiński, Tadeusz (*with* Spodzieja, Stanisław) Bifurcation points of real polynomials. (English summary) **98f:14043**
Lagarias, Jeffrey C. (*with* Richardson, Thomas J.) Multivariate Descartes rule of signs and Sturmfels's challenge problem. **98i:14054**
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Marshall, Murray A. ★ Spaces of orderings and abstract real spectra. **98b:14041**

Monnier, Jean-Philippe About the image of the total signature map in the two-dimensional case. **98k:14078**
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Parusiński, Adam (*with* Szafraniec, Zbigniew) Algebraically constructible functions and signs of polynomials. (English summary) **98d:14070**
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Roy, Marie-Françoise Basic algorithms in real algebraic geometry and their complexity: from Sturm's theorem to the existential theory of reals. **98b:14042**
Sekiguchi, Jiro Geometry of 7 lines on the real projective plane and the root system of type E_7. (English summary) (*see* **98h:00039**)
Spodzieja, Stanisław *see* **Krasiński, Tadeusz, 98f:14043**
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Cho, Jin-Hwan (*with* Suh, Dong Youp) Algebraic realization problems for low-dimensional G manifolds. (English summary) **98i:57065**
Degtyarëv, Aleksandr Igorevich (*with* Kharlamov, Viatcheslav) Halves of a real Enriques surface. (English summary) **98g:14037**
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Ikramov, Kh. D. On the dimension of a variety of normal matrices. (Russian. Russian summary) **98m:15023**
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Łęcki, Andrzej (*with* Szafraniec, Zbigniew) An algebraic method for calculating the topological degree. **98b:55002**
Natanzon, S. M. Periodic solitons and real algebraic curves. (English summary) (*see* **98g:14002**)
Roytwarf, N. (*with* Yomdin, Y.) Bernstein classes. (English and French summaries) **98h:34009a**
Sotomayor, Jorge (*with* Garcia, Ronaldo A.) Lines of curvature on algebraic surfaces. (English and French summaries) **98a:53007**
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Suh, Dong Youp Equivariant algebraic approximations of G maps. (English summary) **98d:57065**
— *see also* **Cho, Jin-Hwan, 98i:57065**
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14P10 Semialgebraic sets and related spaces

Andradas, Carlos (*with* Bröcker, Ludwig; Ruiz, Jesús M.) ★ Constructible sets in real geometry. **98e:14056**
Barvinok, A. I. On the Betti numbers of semialgebraic sets defined by few quadratic inequalities. **98f:14044**
Basu, Saugata (*with* Pollack, Richard M.; Roy, Marie-Françoise) On computing a set of points meeting every cell defined by a family of polynomials on a variety. (English summary) **98d:14071**
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Burési, Jérôme (*with* Mahé, Louis) Reducing inequalities with bounds. **98j:14073**
González-López, M. J. (*with* Recio, Tomas; Santos, Francisco) Parametrization of semialgebraic sets. (English summary) **98a:14073**
González-Vega, Laureano (*with* Lombardi, Henri) Smooth parametrizations for several cases of the Positivstellensatz. **98d:14072**
Lion, Jean-Marie (*with* Rolin, Jean-Philippe) Théorème de Gabrielov et fonctions log-exp-algébriques. (English and French summaries) [Gabrielov's theorem and log-exp-algebraic functions] **98b:14043**
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Mahé, Louis *see* **Burési, Jérôme, 98j:14073**
Pernazza, L. Decidability of the separation problem in dimension 2. (English and Italian summaries) **98g:14071**
Pollack, Richard M. *see* **Basu, Saugata; et al., 98d:14071**
de la Puente, M. J. Specializations and a local homeomorphism theorem for real Riemann surfaces of rings. (English summary) **98b:14044**
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Rolin, Jean-Philippe *see* **Lion, Jean-Marie, 98b:14043**
Roy, Marie-Françoise Computations in real algebraic geometry. (*see* **97f:65002**)
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Baran, Mirosław (*with* Pleśniak, W.) Bernstein and van der Corput-Schaake type inequalities on semialgebraic curves. (English summary) **98e:41016**
Bröcker, Ludwig (*with* Kuppe, M.; Scheufler, W.) Inner metric properties of 2-dimensional semi-algebraic sets. (English summary) **98m:53084**
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Giusti, Marc *see* **Bank, B.; et al., 98h:68123**
Grigor'ev, D. Yu. (*with* Karpinski, Marek; Vorob'ev, N. N., Jr.) Lower bound on testing membership to a polyhedron by algebraic decision and computation trees. (English summary) **98c:68090**
Heintz, Joos *see* **Bank, B.; et al., 98h:68123**
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Kuppe, M. *see* **Bröcker, Ludwig; et al., 98m:53084**
Kurdyka, Krzysztof (*with* Pawłucki, Wiesław) Subanalytic version of Whitney's extension theorem. (English summary) **98i:32008**
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Montaña, J. L. (*with* Morais, Jose Enrique; Pardo, Luis Miguel) Lower bounds for arithmetic networks. II. Sum of Betti numbers. (English summary) **98j:68060**
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Nakazato, Hiroshi Quartic curves associated to 4 by 4 matrices. (English summary) **98d:14069**
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Pardo, Luis Miguel *see* **Montaña, J. L.; et al., 98j:68060**
Park, Dae Heui (*with* Suh, Dong Youp) Equivariant semi-algebraic triangulations of real algebraic G-varieties. **98m:57044**
Pawłucki, Wiesław *see* **Kurdyka, Krzysztof, 98i:32008**
Pleśniak, W. *see* **Baran, Mirosław, 98e:41016**
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14P15 Real analytic and semianalytic sets [see also 32B20, 32C05]

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Teissier, Bernard Tame and stratified objects. **98k:14080**

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Bochnak, Jacek (*with* Kucharz, Wojciech) Complete intersections in differential topology and analytic geometry. (Italian summary) **98b:57045**
Bröcker, Ludwig *see* **Andradas, Carlos; et al., 98e:14056**
Fukui, Toshizumi Seeking invariants for blow-analytic equivalence. (English summary) **98c:32009**
van der Hoeven, Joris On the computation of limsups. (English summary) **98k:41034**
Illman, Sören Smoothly equivalent real analytic proper G-manifolds are subanalytically equivalent. **98a:57045**
Kawakami, Tomohiro Equivariant exponentially Nash vector bundles. (English summary) **98f:14045**
Kucharz, Wojciech *see* **Bochnak, Jacek, 98b:57045**
Kurdyka, Krzysztof (*with* Orro, Patrice) Distance géodésique sur un sous-analytique. (French summary) [Geodesic distance on a subanalytic set] **98m:32008**
Lion, Jean-Marie (*with* Rolin, Jean-Philippe) Homologie des ensembles semi-pfaffiens. (English and French summaries) [Homology of semi-Pfaffian sets] **98g:32010**
— (*with* Rolin, Jean-Philippe) Théorème de préparation pour les fonctions logarithmico-exponentielles. (English and French summaries) [Preparation theorem for logarithmic-exponential functions] **98h:32009**
Łojasiewicz, Stanisław (*with* Tougeron, J.-Cl.; Zurro, M. A.) Éclatement des coefficients des séries entières et deux théorèmes de Gabrielov. (English summary) [Blowup of the coefficients of power series and two theorems of Gabrielov] **98d:32006**
Orro, Patrice *see* **Kurdyka, Krzysztof, 98m:32008**
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Wilkie, A. J. Model completeness results for expansions of the ordered field of real numbers by restricted Pfaffian functions and the exponential function. **98j:03052**
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14P20 Nash functions and manifolds [see also 32C07, 58A07]

Kawakami, Tomohiro Equivariant exponentially Nash vector bundles. (English summary) **98f:14045**
Shiota, Masahiro Nash functions and manifolds. **98k:14081**

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Hamm, Helmut A. (*with* Mihalache, Nicolae) Deformation retracts of Stein spaces. **98k:32020**
Kawakami, Tomohiro Nash structures of equivariant smooth manifolds and equivariant smooth vector bundles. **98i:58006**
— A note on exponentially Nash G manifolds and vector bundles. **98c:58002**
Liu, Nianzheng Analytic cell decomposition and the closure of p-adic semianalytic sets. **98h:03039**
Mihalache, Nicolae *see* **Hamm, Helmut A., 98k:32020**

14P25 Topology of real algebraic varieties

Bochnak, Jacek (*with* Kucharz, Wojciech) On dividing real algebraic varieties. **98m:14055**
Gromadzki, Grzegorz On a Harnack-Natanzon theorem for the family of real forms of Riemann surfaces. (English summary) **98k:14082**

Ishikawa, Goo Topology of plane trigonometric curves and a duality for strangeness of plane curves derived from real pseudo-line arrangements. **98d:14073**
Itenberg, I. V. Topology of real algebraic T-surfaces. (English summary) **98m:14056**
Kobayashi, Masanori (*with* Kuo, Tzee-Char) Uniqueness of unibranched curve in $\mathbf{R}^2$ up to simple blowings up. **98i:14055**
Krasnov, V. A. Equivariant cohomology of a real algebraic surface and its applications. (Russian. Russian summary) **98d:14074**
Kucharz, Wojciech *see* **Bochnak, Jacek, 98m:14055**
Kuo, Tzee-Char *see* **Kobayashi, Masanori, 98i:14055**
de Loera, Jesús A. (*with* Wicklin, Frederick J.) On the need of convexity in patchworking. (English summary) **98k:14083**
Mangolte, Frédéric Cycles algébriques sur les surfaces $K3$ réelles. [Algebraic cycles on real $K3$-surfaces] **98f:14046**
McCrory, Clint (*with* Parusiński, Adam) Algebraically constructible functions. (English and French summaries) **98f:14047**
— (*with* Parusiński, Adam) Complex monodromy and the topology of real algebraic sets. (English summary) **98d:14075**
Parusiński, Adam *see* **McCrory, Clint, 98d:14075** *and* **98f:14047**
Recio, Tomas (*with* Sendra, J. Rafael) Real reparametrizations of real curves. (English summary) **98d:14076**
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Barvinok, A. I. On the Betti numbers of semialgebraic sets defined by few quadratic inequalities. **98f:14044**
Degtyarëv, Aleksandr Igorevich (*with* Kharlamov, Viatcheslav) Around real Enriques surfaces. (English summary) **98j:14049**
Deloup, Florian The monodromy group of a configuration of lines. (English summary) **98f:55013**
van Hamel, Joost Real algebraic cycles on complex projective varieties. **98i:14012**
Hong, Hoon An efficient method for analyzing the topology of plane real algebraic curves. (English summary) **98f:14048**
Kharlamov, Viatcheslav *see* **Degtyarëv, Aleksandr Igorevich, 98j:14049**
Mikhalkin, G. B. Blowup equivalence of smooth closed manifolds. (English summary) **98f:57046**
Orevkov, S. Yu. Rudolph diagrams and analytic realization of the Vitushkin covering. (Russian. Russian summary) **98f:32020**
Parusiński, Adam (*with* Szafraniec, Zbigniew) Algebraically constructible functions and signs of polynomials. (English summary) **98d:14070**
Pecker, Daniel Note sur la réalité des points doubles des courbes gauches. (English and French summaries) [Construction of real space curves with prescribed nodes] **98c:14020**
Sekiguchi, Jiro (*with* Yoshida, Masaaki) $W(E_6)$-action on the configuration space of six lines on the real projective plane. **98g:14046**
Suh, Dong Youp Real algebraic quotients and characterization of strongly algebraic G line bundles over free real algebraic G varieties. **98j:57053**
— Homotopical triviality of entire rational maps to even-dimensional spheres. (English summary) **98c:57038**
Szafraniec, Zbigniew On the topological degree of real polynomial vector fields. **98d:32007**
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14P99 None of the above, but in this section

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Leung, Ka Hin (*with* Marshall, Murray A.; Zhang, Yu Fei[2]) The real spectrum of a noncommutative ring. **98j:16028**
Marshall, Murray A. *see* **Leung, Ka Hin; et al., 98j:16028**
McEnerney, James (*with* Stengle, Gilbert) The nonreduced order spectrum of a commutative ring. (English summary) **98j:13023**
Stengle, Gilbert *see* **McEnerney, James, 98j:13023**
Zhang, Yu Fei[2] *see* **Leung, Ka Hin; et al., 98j:16028**

14Qxx Computational aspects in algebraic geometry [see also 12–04, 68Q40]

14Q05 Curves

Du, Hang K. *see* **Sederberg, Thomas W.; et al., 98g:14072**
Goldman, Ronald *see* **Sederberg, Thomas W.; et al., 98g:14072**
González-Vega, Laureano Implicitization of parametric curves and surfaces by using multidimensional Newton formulae. (English summary) **98c:14045**
Hong, Hoon An efficient method for analyzing the topology of plane real algebraic curves. (English summary) **98f:14048**
Katamachi, Kentaro The arithmetic of multivariable Puiseux series and its applications. II. (Japanese. Japanese summary) (*see* **98h:00039**)
Mňuk, Michal An algebraic approach to computing adjoint curves. (English summary) **98f:14049**
Sederberg, Thomas W. (*with* Goldman, Ronald; Du, Hang K.) Implicitizing rational curves by the method of moving algebraic curves. (English summary) **98g:14072**
Sendra, J. Rafael (*with* Winkler, Franz) Parametrization of algebraic curves over optimal field extensions. (English summary) **98d:14077**
Seppälä, M. Computational conformal geometry. **98k:14084**
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Eaves, B. Curtis (*with* Rothblum, Uriel G.) Approximations and complexity for computing algebraic curves. (English summary) **98b:68089**
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González-Vega, Laureano (*with* Lombardi, Henri; Mahé, Louis) Virtual roots of real polynomials. (English summary) **98k:14077**
van Hoeij, Mark Rational parametrizations of algebraic curves using a canonical divisor. (English summary) **98g:14009**
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Karpinski, Marek *see* **von zur Gathen, Joachim; et al., 98d:68111**
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McCallum, Scott On testing a bivariate polynomial for analytic reducibility. (English summary) **98m:68130**
Mňuk, Michal (*with* Sendra, J. Rafael; Winkler, Franz) On the complexity of parametrizing curves. (English summary) **98f:68139**
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Sederberg, Thomas W. Applications to computer aided geometric design. (English summary) **98j:65012**
Sendra, J. Rafael *see* **Recio, Tomas, 98d:14076** *and* **Mňuk, Michal; et al., 98f:68139**
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Takase, Koichi A generalization of Rosenhain's normal form for hyperelliptic curves with an application. **98a:14043**
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14Q10 Surfaces, hypersurfaces

Arrondo, Enrique (*with* Sendra, Juana; Sendra, J. Rafael) Parametric generalized offsets to hypersurfaces. (English summary) **98m:14057**
Fukui, Tetsuo A plotting method for algebraic surfaces that uses approximate algebra. (Japanese) (*see* **98h:00039**)
Sendra, J. Rafael *see* **Arrondo, Enrique; et al., 98m:14057**
Sendra, Juana *see* **Arrondo, Enrique; et al., 98m:14057**

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Bank, B. (*with* Giusti, Marc; Heintz, Joos; Mbakop, G. M.) Polar varieties, real equation solving, and data structures: the hypersurface case. (English summary) **98h:68123**
Canonero, Gabriella (*with* Catalisano, M. V.; Serpico, Maria Ezia) Inflection points of cubic hypersurfaces. (Italian summary) **98e:14042**
Catalisano, M. V. *see* **Canonero, Gabriella; et al., 98e:14042**
Giusti, Marc *see* **Bank, B.; et al., 98h:68123**
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14Q15 Higher-dimensional varieties

Åström, Kalle *see* **Heyden, Anders, 98d:14078**
Chistov, A. L. Polynomial-time computation of the dimension of algebraic varieties in zero-characteristic. (English summary) **98a:14074**
— Polynomial-time computation of the dimensions of components of algebraic varieties in zero-characteristic. (English summary) **98m:14058**
Heyden, Anders (*with* Åström, Kalle) Algebraic properties of multilinear constraints. (English summary) **98d:14078**
Sommese, Andrew J. (*with* Wampler, Charles W.) Numerical algebraic geometry. (English summary) **98d:14079**
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Grigor'ev, D. Yu. (*with* Karpinski, Marek; Vorob'ev, N. N., Jr.) Lower bound on testing membership to a polyhedron by algebraic decision and computation trees. (English summary) **98c:68090**
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Laubenbacher, Reinhard C. (*with* Woodburn, Cynthia J.) An algorithm for the Quillen-Suslin theorem for monoid rings. (English summary) **98f:13027**
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14Q20 Effectivity

Cardinal, J. P. (*with* Mourrain, Bernard) Algebraic approach of residues and applications. (English summary) **98i:14056**

Mourrain, Bernard *see* **Cardinal, J. P., 98i:14056**

Items with secondary classifications in 14Q20

Berry, Thomas G. Parameterization of algebraic space curves. (English summary) **98f:14023**

Mourrain, Bernard Isolated points, duality and residues. (English summary) **98g:14007**

Roy, Marie-Françoise Basic algorithms in real algebraic geometry and their complexity: from Sturm's theorem to the existential theory of reals. **98b:14042**

14Q99 None of the above, but in this section

Baur, Walter Simplified lower bounds for polynomials with algebraic coefficients. (English summary) **98c:14046**

Kako, Fujio *see* **Sasaki, Tateaki, (98h:00039)**

Kobayashi, Hidetsune (*with* Suzuki, Hideo[3]; Sakai, Yoshihiko) Numerical calculation of the multiplicity of a solution to algebraic equations. (English summary) **98c:14047**

Sakai, Yoshihiko *see* **Kobayashi, Hidetsune; et al., 98c:14047**

Sasaki, Tateaki (*with* Kako, Fujio) Some approximate procedures for algebraic computation in GAL. (Japanese) (*see* **98h:00039**)

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Albano, Giovannina A parallel algorithm for the conductor of a set of points. (Italian. English and Italian summaries) **98i:13055**

Cioffi, Francesca An observation about the computation of the Hilbert function applied to the conductor of points. (Italian. English and Italian summaries) **98i:13056**

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Krick, T. (*with* Pardo, Luis Miguel) A computational method for Diophantine approximation. **98h:13039**

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Li, Lian *see* **Wu, Jin Zhao, 98f:13028**

Miyazaki, Chikashi (*with* Vogel, Wolfgang; Yanagawa, Kohji) Associated primes and arithmetic degrees. **98i:13036**

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Sabia, J. *see* **Krick, T.; et al., 98g:13030**

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15–XX Linear and multilinear algebra; matrix theory (finite and infinite)

15–01 Instructional exposition (textbooks, tutorial papers, etc.)

Axler, Sheldon ★ Linear algebra done right. **98i:15001**
Baskakov, A. G. ★ Лекции по алгебре. (Russian. Russian summary) [Lectures in algebra]
Bekker, I. Kh. ★ Линейные преобразования векторных пространств (задачи и упражнения). (Russian. Russian summary) [Linear transformations of vector spaces (problems and exercises)] **98c:15001**
Blyth, T. S. (*with* Robertson, Edmund F.) ★ Basic linear algebra. (English summary)
Fuhrmann, Paul A. ★ A polynomial approach to linear algebra. **98a:15001**
Griese, Birgit *see* **Stoppel, Hannes**
Harville, David A. ★ Matrix algebra from a statistician's perspective. (English summary) **98k:15001**
Lind, Detlef ★ Koordinaten, Vektoren, Matrizen. (German) [Coordinates, vectors, matrices] **98g:15001**
Merris, Russell ★ Multilinear algebra. (English summary) **98i:15002**
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Pavlyuchenko, Yu. V. (*with* Ryzhkov, V. V.) ★ Элементы линейной алгебры и тензорного исчисления. (Russian. Russian summary) [Elements of linear algebra and tensor calculus] **98d:15001**
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Singh, Surjeet ★ Linear algebra. (English summary)
Smith, Larry ★ Linear algebra. (English summary)
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Stoppel, Hannes (*with* Griese, Birgit) ★ Übungsbuch zur linearen Algebra. (German. German summary) [Exercise book for linear algebra]
Weinreich, Gabriel ★ Geometrical vectors. (English summary)
Yaqub, Adil *see* **Moore, Hal G.**

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Problems:
Linear transformations of vector spaces *see* **Bekker, I. Kh., 98c:15001**

Items with secondary classifications in 15–01

Bellman, Richard ★ Introduction to matrix analysis. (English summary) **98a:01021**
Bories-Longuet, Francette (*with* Jarraud, Pierre; Lévy-Bruhl, Anne) ★ Algèbre et géométrie. (French. French summary) [Algebra and geometry]
Gabriel, Peter ★ Matrizen, Geometrie, lineare Algebra. (German. German summary) [Matrices, geometry, linear algebra] **98j:51001**
(Golub, Gene H.) *see* **Bellman, Richard, 98a:01021**
Jarraud, Pierre *see* **Bories-Longuet, Francette; et al.**
Lempio, Frank Numerische Mathematik. I. Methoden der linearen Algebra. [Numerical mathematics. I. Methods of linear algebra] **98e:65001**
Lévy-Bruhl, Anne *see* **Bories-Longuet, Francette; et al.**
Zieschang, Heiner ★ Lineare Algebra und Geometrie. (German) [Linear algebra and geometry] **98j:51002**

15–02 Research exposition (monographs, survey articles)

Bhatia, Rajendra ★ Matrix analysis. (English summary) **98i:15003**
Kuznetsov, Yu. I. ★ Элементы анализа на конечном множестве точек. (Russian. English and Russian summaries) [Elements of analysis on a finite set of points] **98d:15002**

Items with secondary classifications in 15–02

Girko, Vyacheslav L. ★ Theory of linear algebraic equations with random coefficients. **98b:60114**
(Hua, Luo Geng) *see* **Wan, Zhe-xian, 98a:51001**
Merris, Russell ★ Multilinear algebra. (English summary) **98i:15002**
Wan, Zhe-xian ★ Geometry of matrices. (English summary) **98a:51001**

15–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 15–03

(Aitken, A. C.) *see* **Farebrother, Richard William, 98d:01032**
(Barker, George Phillip) *see* **Wielandt, Helmut, 98h:01040**
(Barnes, Earl R.) *see* **Wielandt, Helmut, 98h:01040**
(von Below, Joachim) *see* **Wielandt, Helmut, 98h:01040**
Farebrother, Richard William A. C. Aitken and the consolidation of matrix theory. (English summary) **98d:01032**
(Huppert, Bertram) *see* **Wielandt, Helmut, 98h:01040**
(Schneider, Hans) *see* **Wielandt, Helmut, 98h:01040**
Wielandt, Helmut ★ Mathematische Werke/Mathematical works. Vol. 2. **98h:01040**

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Biography:
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Collected Works:
Wielandt, Helmut *see* **Wielandt, Helmut, 98h:01040**

15–04 Explicit machine computation and programs (not the theory of computation or programming)

Cheng, Hon-Wing (*with* Yau, Stephen S.-T.) More explicit formulas for the matrix exponential. (English summary) **98e:15001**
Yau, Stephen S.-T. *see* **Cheng, Hon-Wing, 98e:15001**

Items with secondary classifications in 15–04

Ablamowicz, Rafał Clifford algebra computations with Maple. (*see* **98f:15022**)
Cechlárová, Katarína (*with* Kolesár, Karol) Strong regularity of matrices in a discrete bounded bottleneck algebra. (English summary) **98c:15035**
Kolesár, Karol *see* **Cechlárová, Katarína, 98c:15035**
Kuznetsov, Sergei Vladimirovich[1] Orthogonal reduction of dense matrices to bidiagonal form on computers with distributed memory architectures. (English summary)

15–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 15–06

(Ablamowicz, Rafał) *see* **Clifford algebras with numeric and symbolic computations, 98a:30003** *and* **Clifford algebras and spinor structures, 98e:00026**
(Baylis, William E.) *see* **Clifford (geometric) algebras, 98f:15022**
(Crumeyrolle, Albert) *see* **Clifford algebras and spinor structures, 98e:00026**
(Lounesto, Pertti) *see* **Clifford algebras with numeric and symbolic computations, 98a:30003** *and* **Clifford algebras and spinor structures, 98e:00026**
(Parra, Josep M.) *see* **Clifford algebras with numeric and symbolic computations, 98a:30003**

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Clifford algebras and spinor structures ★ Clifford algebras and spinor structures. **98e:00026**
Clifford algebras with numeric and symbolic computations ★ Clifford algebras with numeric and symbolic computations. **98a:30003**
Clifford (geometric) algebras ★ Clifford (geometric) algebras. **98f:15022**
Memorial Volume:
Crumeyrolle, Albert ★ Clifford algebras and spinor structures. **98e:00026**
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Theoretical Physics ★ Clifford (geometric) algebras. **98f:15022**

15A03 Vector spaces, linear dependence, rank

Boháč, Zdeněk Transformation of spaces of vector functions of scalar argument. (English summary) **98h:15001**
Calkin, Neil J. Dependent sets of constant weight vectors in GF(q). (English summary) **98m:15001**
Cooperstein, Bruce N. External flats to varieties in $\mathbf{PG}(M_{n,n}(\mathrm{GF}(q)))$. (English summary) **98i:15004**
Daykin, David E. *see* **Tran-ngoc Danh, 98c:15007**
Dobbs, David E. The expected weighted dimension of a sum of vector spaces. **98g:15002**
Fan, Lin Xing (*with* Shao, Jia Yu; Xu, Xin Fu) Subpsace structure and dimensional relations of vector spaces. (Chinese. English and Chinese summaries) **98g:15003**
Fasoli, Maria Alessandra Classification of nilpotent linear spaces in $M(4;\mathbf{C})$. **98c:15004**
Finzel, Martina Plücker-Grassmann coordinates and elementary vectors. (English summary) **98h:15002**
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Hong, Shao Fang (*with* Zhang, Mou-Cheng) On the structure rank of a class of structure matrices. (English summary) **98m:15002**
Hwang, Suk-Geun *see* **Song, Seok-Zun, 98a:15002**
Kaashoek, M. A. *see* **Gohberg, Israel; et al., 98j:15001**
Kuroki, Nobuaki Rough sets and convex subsets in a linear space. (English summary) **98m:15003**
Liu, Xin Guo Some applications of the extreme principal angles between subspaces in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **98h:15003**
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Masol, V. I. Asymptotics of the number of certain k-dimensional subspaces over a finite field. (Russian. Russian summary) **98c:15005**
Noui, Lemnouar Transvecteur de rang 8 sur un corps algébriquement clos. (English and French summaries) [Transvectors of rank 8 over an algebraically closed field] **98c:15006**
Onciulescu, I. Jordan bases and linear differential equations of higher order with constant coefficients. (English and Romanian summaries) **98m:15005**
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Shahabi Shojaei, M. A. (*with* Shahryari, M.) Wang's conjecture on orthonormal bases. (English summary)
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Silva, Fernando C. (*with* Torres, Maria M.) Rank partitions under small perturbations. (English summary) **98m:15006**
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— (*with* Hwang, Suk-Geun) Spanning column ranks and their preservers of nonnegative matrices. (English summary) **98a:15002**
— Linear operators that preserve maximal column ranks of nonnegative integer matrices. (English summary) **98j:15003**
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Topa, Stefan (*with* Wach, Anna) A linear classification of 6-element sequences of vector subspaces in the 4-dimensional vector space. **98a:15003**

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Tran-ngoc Danh (*with* Daykin, David E.) The structure of V-order for integer vectors. (English summary) **98c:15007**
Wach, Anna *see* **Topa, Stefan, 98a:15003**
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Beasley, Leroy B. (*with* Loewy, Raphael) Rank preservers on spaces of symmetric matrices. (English summary) **98k:15002**
Buss, Jonathan F. (*with* Frandsen, Gudmund Skovbjerg; Shallit, Jeffrey O.) The computational complexity of some problems of linear algebra (extended abstract). (English summary) (*see* **98f:68016**)
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Govaerts, W. (*with* Sijnave, B.) Rank-deficient matrices as a computational tool. (English summary) **98g:65038**
Hwang, Tsung-Min (*with* Lin, Wen-Wei; Pierce, Daniel J.) Improved bound for rank revealing LU factorizations. (English summary) **98h:15026**
Lavrič, Boris Finite-dimensional linearly ordered vector spaces. (Slovenian. English and Slovenian summaries)
Lin, Wen-Wei *see* **Hwang, Tsung-Min; et al., 98h:15026**
Loewy, Raphael *see* **Beasley, Leroy B., 98k:15002**
Ma, Siu Lun *see* **Shiu, Wai Chee; et al., 98c:05033**
Marques, Maria da Graça The number of invariant polynomials of a matrix with prescribed off-diagonal blocks. (English summary) **98a:15020**
Onn, Shmuel A colorful determinantal identity, a conjecture of Rota, and Latin squares. **98a:15015**
Pierce, Daniel J. *see* **Hwang, Tsung-Min; et al., 98h:15026**
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Shiu, Wai Chee (*with* Ma, Siu Lun; Fang, Kai Tai) On the rank of cyclic Latin squares. (English summary) **98c:05033**
Sijnave, B. *see* **Govaerts, W., 98g:65038**
Watkins, William Earl Bilinear transformations on matrices: rank preservers. (English summary) **98c:15008**

15A04 Linear transformations, semilinear transformations

Beasley, Leroy B. (*with* Loewy, Raphael) Rank preservers on spaces of symmetric matrices. (English summary) **98k:15002**
Chen, Xuzhou (*with* Hartwig, Robert E.) On the convergence of power scaled Cesàro sums. (English summary) **98k:15003**
Chooi, W. L. (*with* Lim, Ming Huat) Linear preservers on triangular matrices. (English summary) **98m:15007**
Cooke, Charlie H. The adjoint alternative for matrix operators. (English summary) **98k:15004**
Drobnič, Andreja Lexicographical isotone linear operators. (Slovenian. English and Slovenian summaries)
Hartwig, Robert E. *see* **Chen, Xuzhou, 98k:15003**
Jukić, Dragan The matrix of a linear operator in a pair of ordered bases. (English and Croatian summaries)
Lee, G.-Y. (*with* Lee, Sang-Gu; Song, Seok-Zun) Linear operators that strongly preserves [preserve] the sign-central matrices. **98a:15004**
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— *see also* **Lee, G.-Y.; et al., 98a:15004**
Li, Chi-Kwong (*with* Woerdeman, Hugo J.) Special classes of positive and completely positive maps. (English summary) **98b:15001**
Lim, Ming Huat *see* **Chooi, W. L., 98m:15007**
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Onciulescu, I. Properties concerning a direct method for a Jordan basis of a linear operator. (Romanian summary)
Park, Se-Won *see* **Lee, Sang-Gu; et al., 98i:15006**
Seol, Han-Guk *see* **Lee, Sang-Gu; et al., 98i:15006**
Sobczyk, Garret Linear transformations. (*see* **98f:15022**)
Song, Seok-Zun *see* **Lee, G.-Y.; et al., 98a:15004**
Sun, Ji-guang Perturbation analysis of singular subspaces and deflating subspaces. (English summary) **98j:15004**
Watkins, William Earl Bilinear transformations on matrices: rank preservers. (English summary) **98c:15008**
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Bekker, I. Kh. ★ Линейные преобразования векторных пространств (задачи и упражнения). (Russian. Russian summary) [Linear transformations of vector spaces (problems and exercises)] **98c:15001**
Bousso, Enrico Joint spectra and nilpotent Lie algebras of linear transformations. (English summary) **98h:47008**
Compta, A. (*with* Ferrer Llop, Josep) On $(A, B)^t$-invariant subspaces having extendible Brunovsky bases. (English summary) **98a:15024**
Ferrer Llop, Josep *see* **Compta, A., 98a:15024**
Grubb, Anthea Multilinear maps as linear maps on a set of vectors of rank one. (English summary) **98h:15053**
Heinig, Georg The group inverse of the transformation $\mathcal{S}(X) = AX - XB$. (English summary) **98c:15014**
Li, Nian A matrix inverse eigenvalue problem and its application. (English summary) **98g:15008**
Lim, Ming Huat Invertible preservers of certain decomposable tensors. (English summary) **98k:15049**
Petek, Tatjana Additive mappings preserving commutativity. (English summary)

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15A06 Linear equations

Aharoni, Ron (*with* Herman, Gabor T.; Kuba, A.) Binary vectors partially determined by linear equation systems. (English summary) **98d:15003**
Danilov, D. L. (*with* Ermakov, S. M.) Asymptotic complexity of the collision estimator for the solution of linear systems. (Russian. Russian summary) **98a:15005**
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Herman, Gabor T. *see* **Aharoni, Ron; et al., 98d:15003**
Kuba, A. *see* **Aharoni, Ron; et al., 98d:15003**
Liu, Xue Peng $\operatorname{Ker}(\sigma)$, $\operatorname{Im}(\sigma)$ and the structure of solutions of systems of linear equations. (Chinese. English and Chinese summaries)
Manjunatha Prasad, K. Solvability of linear equations and rank-function. (English summary) **98c:15009**
Nedoma, Josef[1] Sign-stable solutions of column-vague linear equation systems. (English summary) **98m:15008**
Rohn, Jiří Overestimations in bounding solutions of perturbed linear equations. (English summary) **98a:15006**
Sun, Ji-guang (*with* Sun, Zheng) Optimal backward perturbation bounds for underdetermined systems. (English summary) **98c:15010**
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Wang, Dian Xuan (*with* Yu, Hai Lan; Gao, Yi Ming) Criteria for positive solutions of positive linear systems of equations. (Chinese. English and Chinese summaries)
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Aberth, Oliver The solution of linear interval equations by a linear programming method. (English summary) **98a:65063**
Avdelas, George (*with* Hadjidimos, Apostolos) Optimal 2-cyclic MSOR for "bowtie" spectra and the "continuous" Manteuffel algorithm. (English summary) **98c:65040**
Bai, Zhong-Zhi The convergence of the two-stage iterative method for Hermitian positive definite linear systems. (English summary)
Ballalij, M. (*with* Sadok, H.) New interpretation of related Huang's methods. (English summary) **98i:65016**
Benzi, Michele (*with* Szyld, Daniel B.) Existence and uniqueness of splittings for stationary iterative methods with applications to alternating methods. (English summary) **98c:65041**
Chandrasekaran, Shivkumar (*with* Sayed, Ali H.) A fast stable solver for nonsymmetric Toeplitz and quasi-Toeplitz systems of linear equations. (English summary) **98m:65034**
Chang, Yaw-Wen (*with* Yang, Chang-Biau) A parallel algorithm for circulant tridiagonal linear systems. (English summary)
Chen, Yong Lin (*with* Yuan, Yong Xin) An oblique projection method for solving restricted systems of linear equations. (Chinese. English and Chinese summaries)
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Collins, Emmanuel G., Jr. (*with* Hodel, A. Scottedward) Efficient solution of linearly coupled Lyapunov equations. (English summary) **98d:65028**
Hadjidimos, Apostolos *see* **Avdelas, George, 98c:65040**
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Kenney, Charles (*with* Laub, Alan J.; Reese, M. S.) Statistical condition estimation for linear systems. (English summary) **98m:65074**
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Liu, Xin Guo (*with* Wang, Hui[1]) A class of structured systems of linear equations. (Chinese. English and Chinese summaries) **98d:65058**
Mihajlović, Milan D. (*with* Milovanović, Emina I.; Milovanović, Gradimir V.; Milovanović, Igor Ž.) A divide and conquer method for solving tridiagonal system of equations. (English summary) (*see* **98h:00033**)
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Pyarnpuu, A. A. (*with* Khokhlyuk, V. I.) ★ Вопросы алгоритмизации в некоторых прикладных задачах. (Russian. Russian summary) [Algorithmization questions in some applied problems] **98b:65069**
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Woźnicki, Zbigniew I. Comparison theorems for splittings of monotone matrices. (*see* **98i:00028**)

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Zhao, Jin Xi A class of direct methods for solving generalized semi-positive definite linear systems. (Chinese. English summary)
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Ziętak, K. Orthant-monotonic norms and overdetermined linear systems. (English summary) **98b:65043**

15A09 Matrix inversion, generalized inverses

Abdelmonem, M. S. *see* **Yamani, H. A., 98c:15019**
Auer, John W. An elementary proof of the invertibility of distance matrices. **98c:15011**
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— Moore-Penrose inverse of the incidence matrix of a tree. (English summary) **98c:15012**
— Structure of a nonnegative regular matrix and its generalized inverses. (English summary) **98m:15009**
Berrick, A. J. (*with* Keating, M. E.) Rectangular invertible matrices. **98c:15013**
Chen, Jianlong A note on generalized inverses of a product. (English summary) **98e:15003**
Ćurić, Mirjana *see* **Stanković, Miomir S.; et al., 98c:15018**
Getz, Neil H. (*with* Marsden, Jerrold E.) Dynamical methods for polar decomposition and inversion of matrices. (English summary) **98i:15007**
Goldwasser, John L. (*with* Klostermeyer, William F.; Trapp, George) Characterizing switch-setting problems. (English summary) **98k:15005**
Groß, Jürgen (*with* Trenkler, Götz) Generalized and hypergeneralized projectors. (English summary) **98h:15004**
— More on concavity of a matrix function. (English summary) **98m:15010**
Hartwig, Robert E. *see* **Puystjens, R., 98k:15006**
Harville, David A. Generalized inverses and ranks of modified matrices. (English and Hindi summaries) **98f:15001**
Heinig, Georg The group inverse of the transformation $\mathscr{S}(X) = AX - XB$. (English summary) **98c:15014**
— (*with* Sakhnovich, Lev Aronovich; Tydnyuk, I. F.) Paired Cauchy matrices. (English summary) **98d:15004**
Hill, Richard D. (*with* Siler, Joseph R.) On Hermitian-invertors. (English summary) **98d:15005**
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Ji, Chuanxiang *see* **Shivakumar, P. N., 98m:15012**
Kailath, Thomas (*with* Olshevsky, Vadim) Displacement-structure approach to polynomial Vandermonde and related matrices. (English summary) **98j:15005**
Karampetakis, N. P. Generalized inverses of two-variable polynomial matrices and applications. (English summary) **98i:15008**
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Milovanović, Gradimir V. (*with* Stanimirović, Predrag S.) Block representation of the group inverse. (English summary) **98c:15016**
— (*with* Stanimirović, Predrag S.) On Moore-Penrose inverse of block matrices and full-rank factorization. (English summary) **98m:15011**
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Simons, Stuart Analytical inversion of a particular type of banded matrix. (English summary) **98c:15017**
Sivakumar, K. C. Nonnegative generalized inverses. (English summary) **98d:15006**
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Stanimirović, Predrag S. Spectral inverses and Jordan canonical form. (English summary) **98g:15004**
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Sun, Wen-Yu (*with* Wei, Yi-min) Inverse order rule for weighted generalized inverse. (English summary) **98m:15013**
Tam, Bit-Shun (*with* Yang, Shang Jun; Zhang, Xiao Dong[1]) Invertibility of irreducible matrices. (English summary) **98e:15004**
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Vescovo, Roberto Inversion of block-circulant matrices and circular array approach. (English summary) **98e:15005**
Wang, Guo Rong[1] Weighted Moore-Penrose, Drazin, and group inverses of the Kronecker product $A \otimes B$, and some applications. (English summary) **98e:15006**
Wei, Mu-sheng Equivalent conditions for generalized inverses of products. (English summary) **98i:15010**
— Equivalent formulae for the supremum and stability of weighted pseudoinverses. (English summary) **98a:15008**
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Yamani, H. A. (*with* Abdelmonem, M. S.) The analytic inversion of any finite symmetric tridiagonal matrix. (English summary) **98c:15019**
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Bennett, John M. (*with* Edwards, J. J.) A graph isomorphism algorithm using pseudoinverses. (English summary) **98c:05117**
Callan, David When does $m - n$ divide $f(m) - f(n)$? A look at column-finite matrices. **98j:11011**
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Gemignani, Luca Schur complements of Bezoutians and the inversion of block Hankel and block Toeplitz matrices. (English summary) **98a:15048**
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Groß, Jürgen Special generalized inverse matrices connected with the theory of unified least squares. (English summary)
Huang, Kai Bin (*with* Wu, Hebin) A remark on the inverse of principal matrices by implicit LU factorization. (English summary) **98m:65044**
Jiang, Zhao Lin (*with* Li, Zi Nian; Fang, Kui) Special methods for finding the inverses of k-circulant matrices of type $(n_1, n_2, \cdots, n_k)$. (Chinese. English and Chinese summaries) **98f:65051**
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Koliha, J. J. A generalized Drazin inverse. **98b:46065**
Krafft, Olaf An arithmetic-harmonic-mean inequality for nonnegative definite matrices. (English summary) **98m:15034**
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Liu, Xin Guo Some applications of the extreme principal angles between subspaces in $\mathbb{C}^n$. (Chinese. English and Chinese summaries) **98h:15003**
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Manjunatha Prasad, K. Solvability of linear equations and rank-function. (English summary) **98c:15009**
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Milovanović, Gradimir V. (*with* Stanimirović, Predrag S.) Rank factorizations and Moore-Penrose inverse. (English summary) (*see* **98h:00033**)
Mitra, Sujit Kumar (*with* Manjunatha Prasad, K.) The nonunique parallel sum. (English summary) **98g:15023**
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Queffelec, Hervé Norm of the inverse of a matrix; solution to a problem of Schäffer. (English and French summaries) **98g:47007**
Saito, Toshiaki (*with* Makino, Isao) A modulo calculation algorithm for generalized matrix inverses and its efficiency. (Japanese) (*see* **98h:00039**)
Sheskin, Theodore J. Computing the fundamental matrix for a nonirreducible Markov chain. (English summary) **98k:65019**
Stanimirović, Predrag S. Implementation of block representation of the Moore-Penrose inverse. (English summary) (*see* **98b:00031**)
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Sun, Zhen Dong (*with* Zhao, Wei Qian) An algorithm for g-inverses of symmetrical nonnegative definite matrices. (Chinese. English summary)
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Wang, Guo Rong[1] *see* **Wei, Yi-min, 98g:15029**
Wang, Jun[3] Recurrent neural networks for computing pseudoinverses of rank-deficient matrices. (English summary) **98c:65069**
Wei, Yi-min (*with* Wang, Guo Rong[1]) The perturbation theory for the Drazin inverse and its applications. (English summary) **98g:15029**

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Ziętak, K. Strict spectral approximation of a matrix and some related problems. (English summary) **98g:15043**

15A12 Conditioning of matrices [see also 65F35]

Dedieu, Jean-Pierre Condition operators, condition numbers, and condition number theorem for the generalized eigenvalue problem. (English summary) **98e:15008**
Gonzaga, Clovis C. (*with* Lara, Hugo J.) A note on properties of condition numbers. (English summary) **98c:15020**
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Kenney, Charles (*with* Laub, Alan J.; Reese, M. S.) Statistical condition estimation for linear systems. (English summary) **98m:65074**
— *see also* **Gudmundsson, Thorkell; et al., 98m:65052**
Kuznetsov, Sergei Vladimirovich[1] Perturbation bounds of the Krylov bases and associated Hessenberg forms. (English summary) **98m:65057**
Laub, Alan J. *see* **Gudmundsson, Thorkell; et al., 98m:65052** *and* **Kenney, Charles; et al., 98m:65074**
Lu, Xing Jiang (*with* Yi, Da Yi) An incomplete factorization technique and preconditioning methods for large sparse matrices. (Chinese. English and Chinese summaries)
Neumaier, Arnold Scaling and structural condition numbers. (English summary) **98a:65061**
Ng, Michael K. Band preconditioners for block-Toeplitz–Toeplitz-block systems. (English summary) **98c:65052**
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Serra, Stefano Preconditioning strategies for asymptotically ill-conditioned block Toeplitz systems. (English summary) **98a:65052**
Strela, V. V. Investigation of the properties of circulant preconditioning. (Russian. Russian summary) **98m:65075**
Turcajová, Radka Numerical condition of discrete wavelet transforms. (English summary) **98d:42006**
Uhlig, Frank The $\mathcal{QR}$ algorithm, basic theory, convergence, and conditional stability. (English summary) **98g:65033**
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15A15 Determinants, permanents, other special matrix functions [see also 19B10, 19B14]

Akritas, Alkiviadis G. (*with* Akritas, Evgenia K.; Malashonok, G. I.) Various proofs of Sylvester's (determinant) identity. (English summary) **98c:15021**
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Amdeberhan, Tewodros (*with* Ekhad, Shalosh B.) A condensed condensation proof of a determinant evaluation conjectured by Greg Kuperberg and Jim Propp. **98b:15002**
Beatty, Millard F. (*with* Pan, Feixia) On determinants having complex conjugate columns or rows. (English summary) **98j:15006**
Bebiano, Natália (*with* da Providência, João) On the dual of a result of Miranda and Thompson. (English summary) **98c:15022**
— (*with* Li, Chi-Kwong; da Providência, João) Determinant of the sum of a symmetric and a skew-symmetric matrix. (English summary) **98c:15023**
Bezdek, James C. *see* **Hemasinha, Rohan; et al., 98a:15011**
Bhaya, Amit Real matrices with positive determinant are homotopic to the identity. (English summary)
Bussemaker, Frans (*with* Kaplansky, Irving; McKay, Brendan D.; Seidel, Johan Jacob) Determinants of matrices of the conference type. (English summary) **98d:15009**
Chan, Onn (*with* Lam, T. K.) Hook immanantal inequalities for Laplacians of trees. (English summary) **98i:15011**
Chen, Fuyuan Relations between double determinants of quaternion matrices and determinants of complex matrices. (English and Chinese summaries) **98m:15014**
Chu, Wen Chang Determinant, permanent, and MacMahon's master theorem. (English summary) **98b:15003**
Codenotti, Bruno (*with* Crespi, Valentino; Resta, Giovanni) On the permanent of certain (0, 1) Toeplitz matrices. (English summary) **98m:15015**
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Falikman, D. I. Inequalities for permanents of Hermitian matrices. (English summary) **98c:15024**
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Grady, Michael (*with* Newman, Morris) The geometry of an interchange: minimal matrices and circulants. (English summary) **98e:15009**
Gyires, B. Elementary proof for a van der Waerden's conjecture and related theorems. (English summary) **98b:15005**
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Ishikawa, Masao (*with* Wakayama, Masato) Minor summation formula and applications, discrete Fourier transforms. (English summary) **98g:15006**
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Mahajan, Meena (*with* Vinay, V.) Determinant: combinatorics, algorithms, and complexity. (English summary) **98m:15016**
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— (*with* Kung, Fan-Chu) Upper and lower matrix bounds of the solutions for the continuous and discrete Lyapunov equations. (English summary) **98d:15016**
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— (*with* Xue, Youcai) Matrix equation $AXB + CYD = E$ over a regular ring with identity. (English summary) **98c:15049**
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15A27 Commutativity

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15A30 Algebraic systems of matrices [see also 16S50, 20Gxx, 20Hxx]

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15A33 Matrices over special rings (quaternions, finite fields, etc.)

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— (*with* Lin, Chun Yan) An inverse problem for a system of right linear equations over a skew field. (Chinese. English and Chinese summaries) **98a:15032**
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15A36 Matrices of integers [see also 11C20]

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Fallat, Shaun (*with* van den Driessche, P.) Maximum determinant of (0, 1) matrices with certain constant row and column sums. (English summary) **98h:15007**
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Jain, Surender Kumar (*with* Snyder, L. E.) A note on factoring 0-1 matrices. (English summary) **98g:15021**
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15A39 Linear inequalities

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15A42 Inequalities involving eigenvalues and eigenvectors

Alpargu, Gülhan (*with* Styan, George P. H.) Some remarks and a bibliography on the Kantorovich inequality. (English summary) **98h:15033**
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Im, Eric Iksoon Narrower eigenbounds for Hadamard products. (English summary) **98f:15013**
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15A45 Miscellaneous inequalities involving matrices

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Carlson, David H. (*with* Johnson, Charles Royal) Extremal patterns of distinct entries in vectors in the range of a matrix. (English summary) **98k:15020**
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Groß, Jürgen Schur's inequality reconsidered. (English summary)
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Li, Bishan (*with* Tsatsomeros, Michael J.) Doubly diagonally dominant matrices. (English summary) **98g:15028**
Li, Chi-Kwong (*with* Mathias, Roy) Matrix inequalities and partial isometries that arise in x-ray crystallography. (English summary) **98a:15037**
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Li, Wen Liang Some inequalities for the traces of weakly positive definite quaternion matrices. (Chinese. English and Chinese summaries)

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— *see also* **Mond, Bertram**, **98a:15038**; **Alić, Mladen; et al.**, **98e:15024**; **Mond, Bertram**, **98i:15021**; **98m:15035** *and* **Alić, Mladen; et al.**
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Bhatia, Rajendra (*with* Kittaneh, Fuad) Some inequalities for norms of commutators. (English summary) **98c:47009**
Blower, Gordon Complete polynomial bounds for matrices. **98j:47015**
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Chan, Ono (*with* Lam, T. K.) Hook immanantal inequalities for Laplacians of trees. (English summary) **98i:15011**
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Falikman, D. I. Inequalities for permanents of Hermitian matrices. (English summary) **98c:15024**
— The permanent of a class of matrices associated with a finite group. **98i:15013**
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Liu, Jian Zhou (*with* Zhu, Li) A minimum principle and estimates of the eigenvalues for Schur complements of positive semidefinite Hermitian matrices. (English summary) **98f:15006**
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— (*with* Zhu, Li) Some improvement of Oppenheim's inequality for M-matrices. (English summary) **98e:15010**
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Kalpazidou, Sofia (*with* Cohen, Joel E.) Orthogonal cycle transforms of stochastic matrices. (English summary) **98c:60079**

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Song, Seok-Zun (*with* Hong, Sung Min; Jun, Young Bae; Kim, Seon Jeong) Minimum permanents on a face of the polytope of doubly stochastic matrices. (English summary) **98k:15009**

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— (*with* Wadati, Miki) Time-dependent random matrix theories on non-compact and compact non-zero curvature spaces. (English summary) **98c:82027**

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Feinberg, Joshua (*with* Zee, A.) Non-Gaussian non-Hermitian random matrix theory: phase transition and addition formalism. (English summary) **98k:82091**

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— Strong law for the singular values and eigenvectors of random matrices. I. (English summary) **98e:60048**

Itoi, Chigaku (*with* Mukaida, Hisamitsu; Sakamoto, Yoshinori) Replica method for wide correlators in Gaussian orthogonal, unitary and symplectic random matrix ensembles. (English summary) **98k:82092**

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Janik, Romuald A. (*with* Nowak, Maciej A.; Papp, Gábor; Zahed, Ismail) Non-Hermitian random matrix models. (English summary) **98k:82093**

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15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]

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15A66 Clifford algebras, spinors

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— Clifford algebra computations with Maple. (*see* **98f:15022**)
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— Hurwitz pairs and Clifford valued inner products. (English summary) **98e:15030**
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Doran, Chris (*with* Lasenby, Anthony; Gull, Stephen) Linear algebra. (*see* **98f:15022**)
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15A69 Multilinear algebra, tensor products

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Grubb, Anthea Multilinear maps as linear maps on a set of vectors of rank one. (English summary) **98h:15053**
Lei, Tian-Gang Generalized Schur functions and generalized decomposable symmetric tensors. (English summary) **98e:15031**
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15A72 Vector and tensor algebra, theory of invariants [see also 13A50, 14D25]

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15A75 Exterior algebra, Grassmann algebras

Brini, Andrea (*with* Teolis, Antonio G. B.) Grassmann progressive and regressive products and CG-algebras. **98c:15083**
Hestenes, David Grassmann's vision. **98c:15084**
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Bilge, Ayşe Hümeyra (*with* Dereli, Tekin; Koçak, Şahin) The geometry of self-dual two-forms. (English summary) **98h:53117**
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15A90 Applications of matrix theory to physics

Davar, Sonia Note on application of linear algebra to approximation problem in quantum chemistry. (*see* **98b:00017**)

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15A99 Miscellaneous topics

Abdukhalikov, K. S. (*with* Tulenbaev, M. S.; Umirbaev, Ualbai U.) On fuzzy subalgebras. (English summary) **98h:15057**
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16Pxx Chain conditions, growth conditions, and other forms of finiteness

16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx.}

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16P50 Localization and Noetherian rings [see also 16U20]

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16P60 Chain conditions on annihilators and summands: Goldie type conditions [see also 16U20], Krull dimension

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16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence

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16P90 Growth rate, Gel′fand-Kirillov dimension

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Le Bruyn, Lieven (*with* Smith, S. Paul; Van den Bergh, Michel) Central extensions of three-dimensional Artin-Schelter regular algebras. **98c:16028**
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16Rxx Rings with polynomial identity

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Drensky, Vesselin (*with* Regev, Amitai) Exact asymptotic behaviour of the codimensions of some P.I. algebras. (English summary) **98b:16021**
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Riley, David M. PI-algebras generated by nilpotent elements of bounded index. (English summary) **98e:16023**
Vasantha Kandasamy, W. B. On quasi-commutative rings. (English summary)
Vasilovskiĭ, S. Yu. $\mathbf{Z}$-graded polynomial identities of the full matrix algebra. (English summary) **98m:16026**
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Markov, V. T. On PI-rings and semiprime rings that have an exact module with Krull dimension. (Russian. Russian summary) **98m:16028**
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16R30 Trace rings and invariant theory

Beneish, Esther Induction theorems on the stable rationality of the center of the ring of generic matrices. **98k:16034**
Drensky, Vesselin (*with* Gupta, Chander Kanta) New automorphisms of generic matrix algebras and polynomial algebras. (English summary) **98h:16033**
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Kemer, A. R. Remarks on the prime varieties. (English summary) **98h:16034**

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Giambruno, Antonio *see* **Berele, Allan; et al., 98b:16023**
Holland, Martin P. K-theory of endomorphism rings and of rings of invariants. (English summary) **98c:16006**
Oura, Manabu Molien series related to certain finite unitary reflection groups. **98e:16033**
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Vinberg, Èrnest Borisovich On invariants of a set of matrices. (English summary) **98h:14036**

16R40 Identities other than those of matrices over commutative rings

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Riley, David M. PI-algebras generated by nilpotent elements of bounded index. (English summary) **98e:16023**
Zubrilin, K. A. On the largest nilpotent ideal in algebras that satisfy Capelli identities. (Russian. Russian summary) **98m:16027**

16R50 Other kinds of identities (generalized polynomial, rational, involution)

Beidar, K. I. (*with* Fong, Yuen; Lee, Pjek Hwee; Wang, Ts'ai Lien) On additive maps of prime rings satisfying the Engel condition. (English summary) **98i:16022**
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Wang, Ts'ai Lien *see* **Beidar, K. I.; et al., 98i:16022**
Yanai, Tadashi $*$-differential identities of semiprime rings with involution. **98a:16031**

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Lee, Tsiu-Kwen A characterization of left ideals satisfying polynomial identities. (English summary) **98g:16017**
— Independence property of polynomials in prime rings. (English summary) **98j:16011**
— Derivations with values satisfying a right or left S_{2n}-polynomial. (English summary) **98d:16038**

16R99 None of the above, but in this section

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Zhou, Kai Shan A class of zero polynomials in a PI-algebra. (Chinese. English and Chinese summaries)

Items with secondary classifications in 16R99

Braun, Amiram Localization, completion and the AR property in Noetherian P.I. rings. (English summary) **98c:16025**

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16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)

Andreeva, T. A. (*with* L′vov, I. V.; Kharchenko, Vladislav K.) On rings of quotients of free algebras. (Russian. Russian summary) **98h:16035**

Cohn, P. M. On skew field coproducts with a finite extension. (English summary) **98a:16032**
Eisenbud, David (*with* Peeva, Irena; Sturmfels, Bernd) Non-commutative Gröbner bases for commutative algebras. (English summary) **98e:16024**
Kharchenko, Vladislav K. *see* **Andreeva, T. A.; et al., 98h:16035**
L'vov, I. V. *see* **Andreeva, T. A.; et al., 98h:16035**
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Farkas, Daniel R. Poisson polynomial identities. (English summary) **98m:16029**
Lichtman, A. I. (*with* Shirvani, M.) HNN-extensions of Lie algebras. (English summary) **98e:17008**
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Shirvani, M. *see* **Lichtman, A. I., 98e:17008**

16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)

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Hammoudi, Lakhdar ★ Nil-algèbres non-nilpotentes et groupes périodiques infinis. (French. French summary) [Nonnilpotent nil algebras and infinite periodic groups] **98j:16010**
Zhang, James J. Quadratic algebras with few relations. **98i:16011**

16S20 Centralizing and normalizing extensions

Fahmy, Mohamed Hussein (*with* Mohammady, S.) Normalizing extensions of regular and π-regular P. I.-rings. (English and Arabic summaries) **98m:16030**
Kaučikas, A. On centred and integral homomorphisms. (Lithuanian summary) **98k:16037**
Le Bruyn, Lieven (*with* Smith, S. Paul; Van den Bergh, Michel) Central extensions of three-dimensional Artin-Schelter regular algebras. **98c:16028**
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Matsuoka, Manabu On ring cross-sections. (Japanese) (*see* **98d:00023**)
Mohammady, S. *see* **Fahmy, Mohamed Hussein, 98m:16030**
Smith, S. Paul *see* **Le Bruyn, Lieven; et al., 98c:16028**
Van den Bergh, Michel *see* **Le Bruyn, Lieven; et al., 98c:16028**

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Ferrero, Miguel A. Closed submodules of centred bimodules over semiprime rings, and applications to ring extensions. (English summary) **98h:16047**
Kadison, Lars On split, separable subalgebras with counitality condition. (English summary) **98b:46081**
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16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]

Gómez Torrecillas, José (*with* Jara, Pascual; Merino, L.) Locally finite representations of algebras. **98c:16029**
Jara, Pascual *see* **Gómez Torrecillas, José; et al., 98c:16029**
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Bergen, Jeffrey (*with* Passman, D. S.) Enveloping algebras of Lie color algebras: primeness versus graded-primeness. (English summary) **98g:17013**
Bueso, José L. (*with* Castro-Jiménez, F. J.; Jara, Pascual) Effective computation of the Gelfand-Kirillov dimension. (English summary) **98c:16027**
Castro-Jiménez, F. J. *see* **Bueso, José L.; et al., 98c:16027**
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Joseph, Anthony Coxeter structure and finite group action. (English and French summaries) **98k:17011**
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Olshanskiĭ, Grigoriĭ Generalized symmetrization in enveloping algebras. (English summary) **98c:17014**
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16S32 Rings of differential operators [see also 13N10, 32C38]

Coutinho, S. C. Extensions of modules over Weyl algebras. (English summary) **98a:16033**
Krasil'shchik, I. S. Calculus over commutative algebras: a concise user guide. (English summary) (*see* **98k:00006**)
Liu, Hai Xia (*with* Wang, Ming Sheng²) Rings of differential operators on curves and modules over them. (Chinese. English and Chinese summaries)
Lunts, Valery A. (*with* Rosenberg, Alexander L.) Differential operators on noncommutative rings. **98k:16038**
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Smith, Karen E. (*with* Van den Bergh, Michel) Simplicity of rings of differential operators in prime characteristic. **98d:16039**
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Bavula, Vladimir V. Classification of the simple modules of the quantum Weyl algebra and the quantum plane. **98m:16005**
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Taniguchi, Kenji On uniqueness of commutative rings of Weyl group invariant differential operators. (English summary) **98d:58092**
Wood, R. M. W. Differential operators and the Steenrod algebra. **98h:55024**

16S34 Group rings [see also 20C05, 20C07], Laurent polynomial rings

Chen, Huan Yin Group rings over lower-dimensional rings. (Chinese. English and Chinese summaries)
— Group rings over localized rings. (Chinese. English and Chinese summaries)
— Modules with free powers over group rings. (Chinese. English and Chinese summaries)
Coelho, Sônia P. (*with* Polcino Milies, César) Some remarks on central idempotents in group rings. (English summary) **98i:16023**
Fukushima, Hiroshi On p-radical groups G and the nilpotency indices of $J(kG)$. II. **98h:16036a**
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Gutan, Marin Sur les diviseurs de zéro dans les anneaux de groupes. [Zero divisors in group rings] (*see* **98c:00016**)
Hanna, L. A.-M. *see* **Singh, Surjeet, 98g:16023**
Hartley, Brian (*with* Zalesskiĭ, Aleksandr E.) Confined subgroups of simple locally finite groups and ideals of their group rings. **98c:16031**
Herman, Allen On the automorphism groups of rational group algebras of metacyclic groups. (English summary) **98g:16022**
Hida, Akihiko Some remarks on the Loewy series of projective modules for p-solvable groups. **98m:16032**
Hurley, T. C. (*with* Sehgal, Sudarshan K.) The modular Fox subgroups. **98c:16032**
Kumar, Yogesh On a theorem of Obayashi.
Lichtman, A. I. Trace functions in the ring of fractions of polycyclic group rings. II. (English summary) **98i:16024**
Madlener, Klaus (*with* Reinert, B.) A generalization of Gröbner basis algorithms to nilpotent group rings. (English summary) **98h:16037**
Passi, I. B. S. Trace function methods in group rings. **98h:16038**
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— The Jacobson radical of group rings of locally finite groups. (English summary) **98c:16034a**
Petrenko, B. V. On direct decompositions in modules over group rings. (Ukrainian. English and Ukrainian summaries) **98d:16040**
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Vermani, L. R. Augmentation quotients of integral group rings. (English summary) **98h:16039**
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Chen, Huan Yin (*with* Feng, Liang Gui) Group rings over semihereditary rings. (Chinese. English and Chinese summaries) **98c:16005**
Coelho, Sônia P. (*with* Polcino Milies, César) Automorphisms of group algebras of dihedral groups. (Italian summary) **98c:20007**
Djoković, Dragomir Ž. (*with* Zhao, Kai Ming) Generalized Cartan type S Lie algebras in characteristic zero. **98k:17026**
Feng, Liang Gui *see* **Chen, Huan Yin**, **98c:16005**
Gangopadhyay, Sugata *see* **Sharma, Rajendra Kumar; et al.**, **98e:16031**
Gupta, Narain On the solution of the dimension subgroup problem. (English summary) (*see* **98e:20003**)
Gustafson, William H. The representation ring of a group of prime order. (English summary) **98h:20010**
Héthelyi, László (*with* Szőke, M.; Lux, K.) The restriction of indecomposable modules of group algebras and the quasi-Green correspondence. **98m:20017**
Hoechsmann, Klaus On the arithmetic of commutative group rings. **98h:16049**
Jespers, Eric (*with* Leal, Guilherme) Free products of abelian groups in the unit group of integral group rings. (English summary) **98j:16019**
Kimmerle, Wolfgang On automorphisms of $\mathbb{Z}G$ and the Zassenhaus conjectures. (*see* **96m:16001**)
Krempa, Jan Rings with Noetherian groups of units. (English summary) **98m:16039**
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Okon, J. S. (*with* Rush, David E.; Vicknair, Paul) Numbers of generators of ideals in zero-dimensional group rings. **98b:13017**
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— Problems on group rings. (English summary) (*see* **98h:16003**)
Rush, David E. *see* **Okon, J. S.; et al.**, **98b:13017**
Sahai, Meena (*with* Srivastava, J. B.) A note on Lie centrally metabelian group algebras. (English summary) **98c:20009**
Sharma, Rajendra Kumar (*with* Gangopadhyay, Sugata; Vetrivel, V.) On units in $\mathbb{Z}S_3$. (English summary) **98e:16031**
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Vellbinger, Ute On the minimum distance of ideals in group algebras. (English summary) **98g:94049**
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16S35 Twisted and skew group rings, crossed products

Artamonov, V. A. Quantum polynomial algebras. **98m:16033**
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Carvalho, Paula A. A. B. Prime links in some skew-polynomial and skew-Laurent rings. (English summary) **98d:16041**
Marubayashi, Hidetoshi (*with* Yi, Zhong) Dubrovin valuation properties of skew group rings and crossed products. (English summary) **98k:16039**
Minty, R. John H. Schur indices of division algebras from crossed products. (English summary) (*see* **98g:20004**)
Sidorov, Aleksandr Vasil'evich Globalization of local actions of coalgebras. (Russian. Russian summary) **98e:16026**
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Anderson, Frank W. (*with* D'Ambrosia, Barbara K.) Square-free algebras and their automorphism groups. (English summary) **98a:16027**
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Bavula, Vladimir V. (*with* Van Oystaeyen, Freddy) The simple modules of certain generalized crossed products. (English summary) **98e:16006**
Bespalov, Yu. N. Crossed modules, quantum braided groups and ribbon structures. (English and Russian summaries) **98g:18008**
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16S36 Ordinary and skew polynomial rings and semigroup rings [see also 20M25]

Abrams, Gene (*with* Menini, Claudia) Duality theorems for finite semigroups. (English summary) **98c:16036**
Artamonov, V. A. Modules over quantum polynomials. (Russian. Russian summary) **98h:16040**
Chen, Huan Yin (*with* Hao, Zhi Feng) Stable structures over semigroup rings. (Chinese. English and Chinese summaries)
Clase, M. V. Prime and semiprime semigroup algebras of cancellative semigroups. (English summary) **98h:16041**
Hao, Zhi Feng *see* **Chen, Huan Yin**
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Kelarev, A. V. Generalized radical semigroup rings. (English summary)
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Li, Xing Wu The right Artinian property of semigroup rings. (Chinese. English and Chinese summaries)
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— Extended centroid of a skew polynomial ring. (Russian)
Oh, Sei-Qwon Catenarity in a class of iterated skew polynomial rings. **98b:16024**
Rigal, Laurent Inégalité de Bernstein et équations fonctionnelles pour certaines algèbres de Weyl quantiques. [Bernstein inequality and functional equations for certain quantum Weyl algebras] **98k:16040**
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Cohn, P. M. Polynomial and power series rings. Free algebras, firs and semifirs. **98b:16008**
Crabb, M. J. (*with* Munn, W. D.) The centre of the algebra of a free inverse monoid. **98g:20097**
D'Anna, Marco Type sequences of numerical semigroups. **98k:20100**
Guccione, Jorge A. (*with* Guccione, Juan J.) Hochschild and cyclic homology of Ore extensions and some examples of quantum algebras. (English summary) **98i:16012**
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Jakobsen, Hans Plesner (*with* Zhang, Hechun) The center of the quantized matrix algebra. (English summary) **98i:17016**
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Klyushin, A. V. (*with* Kozhukhov, I. B.) On the compact semigroup rings. (English summary) **98i:20063**
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Kuzmanovich, James (*with* Teply, Mark L.) Homological dimensions of semigroup rings. **98h:16011**
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Munn, W. D. *see* **Crabb, M. J.**, **98g:20097**
Ponizovskiĭ, I. S. When are irreducible modules over a semigroup ring isomorphic to ideals? (Russian) **98g:20099**
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Silkin, N. N. On some finitely based representations of semigroups. **98g:20100**
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Wang, De Sheng (*with* Li, Shi Zheng; Zhang, Yu Fen) Rings of fractions of commutative semigroups. (Chinese. English and Chinese summaries) **98a:20074**
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Zhang, Yu Fen *see* **Wang, De Sheng; et al.**, **98a:20074**

16S40 Smash products of general Hopf actions [see also 16W30]

Wang, Zhixi Actions of Hopf algebras on fully bounded Noetherian rings. (English summary) **98g:16024**

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16S50 Endomorphism rings: matrix rings [see also 15–XX]

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— (*with* Leroy, André) Recognition and computations of matrix rings. (English summary) **98m:16035**
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— *see also* **Nicholson, W. K., 98d:16043**
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16S60 Rings of functions, subdirect products, sheaves of rings

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Azarpanah, F. Essential ideals in $C(X)$. (English summary) **98k:54027**
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16S70 Extensions of rings by ideals

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16S80 Deformations of rings [see also 14D15]

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16S90 Maximal ring of quotients, torsion theories, radicals on module categories [see also 13D30, 18E40] {For radicals of rings see 16Nxx.}

Arroyo Paniagua, María José (*with* Ríos Montes, José; Wisbauer, Robert) Spectral torsion theories in module categories. (English summary) **98c:16041**
— (*with* Ríos Montes, José; Wisbauer, Robert) Endomorphism rings of quotient modules for spectral torsion theories. **98c:16042**
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Bunu, I. D. Essentially left Artinian rings and the co-atomicity of a lattice of pretorsions. (Russian. English, Russian and Moldavian summaries) **98k:16044**
— On strictly semiprime rings. (Russian. English, Russian and Moldavian summaries) **98i:16028**
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Ferrero, Miguel A. Closed submodules of centred bimodules over semiprime rings, and applications to ring extensions. (English summary) **98h:16047**

Hoshino, Mitsuo Selfinjectivity of rings relative to Lambek torsion theory. **98j:16018**
Kashu, A. I. Torsion theories and dualities in Morita contexts. (English, Russian and Moldavian summaries) **98k:16045**
— A short survey on torsion theories in modules. (English, Russian and Moldavian summaries)
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— (*with* de Viola-Prioli, Ana M.; Viola-Prioli, Jorge E.) On μ-complemented and singular modules. (English summary) **98b:16028**
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Teply, Mark L. (*with* Torrecillas Jover, Blas) Weak Baer modules over graded rings. **98m:16048**
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16S99 None of the above, but in this section

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El Galiou, Mohamed Déformations des structures de Poisson quadratiques. (English and French summaries) [Deformations of quadratic Poisson structures] **98k:58253**
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Stalder, Shubhangi S. Gabriel dimension of strong supplementary semilattice sums of rings. **98c:16056**
Suris, Yu. B. Nonlocal quadratic Poisson algebras, monodromy map, and Bogoyavlensky lattices. (English summary) **98d:58091**
Verschoren, A. (*with* Willaert, Luc) Noncommutative algebraic geometry: from pi-algebras to quantum groups. (English summary) **98k:14001**
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16Uxx Conditions on elements (including elements of matrix rings, etc.)

16U10 Integral domains

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Roszkowska, Ewa *see* **Mazurek, R., 98e:16030**

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16U20 Ore rings, multiplicative sets, Ore localization

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Möller, Bruno J. Ore sets in serial rings. **98g:16029**
Pop, Horia Calin Sur les matrices quantiques. (English and French summaries) [On quantum matrices] **98c:16044**
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Items with secondary classifications in 16U20

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Sandomierski, Francis L. *see* **McConnell, Michael, 98m:16025**
Simões, Maria Elisa Antunes (*with* Smith, Patrick F.) Rings whose free modules satisfy the ascending chain condition on submodules with a bounded number of generators. (English summary) **98k:16032**
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Smith, S. Paul (*with* Zhang, James J.) A remark on Gelfand-Kirillov dimension. (English summary) **98d:16036**
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16U50 Algebraicity and local finiteness [see also 16N40]

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Klein, Abraham A. *see* **Bell, Howard E.; et al., 98k:16047**

16U60 Units, groups of units, general linear groups

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Billig, Yu. V. (*with* Riley, David M.; Tasić, Vladimir) Nonmatrix varieties and nil-generated algebras whose units satisfy a group identity. (English summary) **98g:16030**
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Bovdi, V. A. (*with* Parmenter, M. M.) Symmetric units in integral group rings. (English summary) **98c:16045**
Danchev, Peter V. Normed unit groups and direct factor problem for commutative modular group algebras. (English summary) **98m:16038**
— Torsion completeness of Sylow p-groups in modular group rings. **98b:16029**
Dixon, Martyn R. *see* **Shin, Hyunyong; et al., 98h:16051**
Gangopadhyay, Sugata *see* **Sharma, Rajendra Kumar; et al., 98e:16031**
Han, Juncheol Regular action in a ring with a finite number of orbits. **98g:16031**
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Jespers, Eric (*with* Leal, Guilherme) Free products of abelian groups in the unit group of integral group rings. (English summary) **98j:16019**
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Leal, Guilherme (*with* del Río Mateos, Angel) Products of free groups in the unit group of integral group rings. II. (English summary) **98h:16050**
— *see also* **Jespers, Eric, 98j:16019**
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— (*with* Sehgal, Sudarshan K.) Subnormal subgroups of group ring units. (English summary) **98d:16046**
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Sharma, Rajendra Kumar (*with* Gangopadhyay, Sugata; Vetrivel, V.) On units in $\mathbf{Z}S_3$. (English summary) **98e:16031**
Shin, Hyunyong (*with* Lyou, Ikseung; Dixon, Martyn R.) On free product in $V(\mathbf{Z}S_3)$. (English summary) **98h:16051**
— (*with* Lyou, Ikseung) On the structure of $V(\mathbf{Z}D_4)$. (English summary) **98h:16052**
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Ullery, William Units of modular group algebras of abelian groups of cardinality $\aleph_2$. (English summary) **98k:16046**
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Cohen, Jo-Ann (*with* Koh, Kwangil) Compact rings having a finite simple group of units. (English summary) **98e:16040**
Dokuchaev, M. A. (*with* Juriaans, Stanley O.; Polcino Milies, César) Integral group rings of Frobenius groups and the conjectures of H. J. Zassenhaus. (English summary) **98e:20010**
Gaglione, A. M. (*with* Myasnikov, A. G.; Remeslennikov, V. N.; Spellman, D.) Formal power series representations of free exponential groups. (English summary) **98g:20045**
Juriaans, Stanley O. *see* **Dokuchaev, M. A.; et al., 98e:20010**
Koh, Kwangil *see* **Cohen, Jo-Ann, 98e:16040**
Koliha, J. J. A generalized Drazin inverse. **98b:46065**
Myasnikov, A. G. *see* **Gaglione, A. M.; et al., 98g:20045**
Passman, D. S. Group algebras whose units satisfy a group identity. II. (English summary) **98c:16033**

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Remeslennikov, V. N. *see* **Gaglione, A. M.; et al., 98g:20045**
Ritter, Jürgen (*with* Weiss, Alfred R.) Towards the determination of the Galois structure of global units. **98a:11149**
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Yamasaki, Aiichi Cancellation of lattices and approximation properties of division algebras. **98d:16028**

16U70 Center, normalizer (invariant elements)

Items with secondary classifications in 16U70

Jakobsen, Hans Plesner (*with* Zhang, Hechun) The center of the Dipper Donkin quantized matrix algebra. (English summary) **98i:16025**
— (*with* Zhang, Hechun) The center of the quantized matrix algebra. (English summary) **98i:17016**
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16U80 Generalizations of commutativity

Abujabal, Hamza A. S. (*with* Khan, Moharram A.; Khan, Mohammad S.; Samman, M. S.) On commutativity of rings with constraints on subsets. (English and Serbo-Croatian summaries)
— (*with* Ashraf, Mohammad) Some commutativity theorems through a Streb's classification. (English summary) **98b:16030**
— (*with* Ashraf, Mohammad; Alghamdi, Mohamed Ali) Some commutativity results for one sided s-unital rings. (English and Turkish summaries) **98m:16040**
— On derivation of semiprime rings. (English and Turkish summaries)
— Some commutativity properties for rings with unity. (English summary)
Alghamdi, Mohamed Ali On a theorem of Herstein. (English summary) **98j:16020**
— *see also* **Abujabal, Hamza A. S.; et al., 98m:16040**
Ashraf, Mohammad A decomposition theorem for periodic rings and its application. (English summary)
— Commutativity of associative rings through a Streb's classification. (English summary)
— *see also* **Abujabal, Hamza A. S., 98b:16030**; **98m:16040** *and* **Jacob, V. W.; et al.**
Bell, Howard E. On power maps, periodicity, and commutativity in rings. (*see* **98g:00020**)
— (*with* Klein, Abraham A.; Kappe, Luise-Charlotte) An analogue for rings of a group problem of P. Erdős and B. H. Neumann. **98k:16047**
Bujade, V. G. *see* **Giri, R. D.; et al.**
Chandrasekhara Rao, K. (*with* Gopalakrishnamoorthy, G.) Some commutativity theorems for certain semi-prime rings. (English summary)
Daif, Mohamad Nagy Commutativity results for semiprime rings with derivations. (English summary)
Giri, R. D. (*with* Bujade, V. G.; Wazalwar, A. K.) A commutativity result for a semisimple ring. (English summary)
— (*with* Bujade, V. G.) Commutativity aspect in semisimple ring. (English summary)
— (*with* Tiwari, Shraddha) On the commutativity of s-unital rings and periodic rings. (English summary) **98a:16037**
Gonçalves, J. Z. (*with* Mandel, Arnaldo) A commutativity theorem for division rings and an extension of a result of Faith. (English summary) **98e:16032**
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16Wxx Rings and algebras with additional structure

16W10 Rings with involution: Lie, Jordan and other nonassociative structures [see also 17B60, 17C50, 46Kxx]

Aburawash, Usama A. On embedding of involution rings. (English summary)
Birkenmeier, Gary F. (*with* Groenewald, Nico J.; Heatherly, Henry E.) Minimal and maximal ideals in rings with involution. (English summary) **98i:16031**
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16W20 Automorphisms and endomorphisms, actions of groups and semigroups and their fixed rings

Amine, Kaidi *see* **L'Moufadal, Ben Yakoub; et al., 98f:16022**
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Bergen, Jeffrey (*with* Grzeszczuk, Piotr) Invariants of skew derivations. (English summary) **98b:16031**
Chaudhry, Muhammad Anwar (*with* Thaheem, A. B.) On a problem of commutativity of automorphisms. (English summary)
— *see also* **Samman, M. S.; et al.**
Domokos, Mátyás (*with* Drensky, Vesselin) A Hilbert-Nagata theorem in noncommutative invariant theory. (English summary) **98k:16049**
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Khan, Liaqat Ali[1] (*with* Thaheem, A. B.) On automorphisms of prime rings with involution.
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Szeto, George On H-separable and Galois extensions of rings. (English summary) **98k:16050**
Thaheem, A. B. *see* **Khan, Liaqat Ali[1]**; **Samman, M. S.; et al.** *and* **Chaudhry, Muhammad Anwar**

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Chen, Tung-Shyan Special identities with (α, β)-derivations. (Italian summary) **98f:16019**
D'Ambrosia, Barbara K. *see* **Anderson, Frank W., 98a:16027**
Herman, Allen On the automorphism groups of rational group algebras of metacyclic groups. (English summary) **98g:16022**
Jing, Naihuan (*with* Zhang, James J.) On the trace of graded automorphisms. (English summary) **98f:16029**

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— *see also* **Ye, Youpei**, **98a:16039**
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— (*with* Kharchenko, Vladislav K.; Oziewicz, Zbigniew) First order calculi with values in right-universal bimodules. (English summary) **98k:16002**
Chebotar', M. A. On certain subrings and ideals of prime rings. (English summary) **98c:16024**
Chen, Tung-Shyan Special identities with (α, β)-derivations. (Italian summary) **98f:16019**
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Hopkins, Nora C. Generalized derivations of nonassociative algebras. **98e:17004**
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Bakhturin, Yu. A. (*with* Fischman, D.; Montgomery, Susan) On the generalized Lie structure of associative algebras. (English summary) **98d:16048**
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— (*with* Van Oystaeyen, Freddy; Zhang, Yin Huo) The Brauer group of Yetter-Drinfel'd module algebras. (English summary) **98c:16047**
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Marks, Greg Direct product and power series formations over 2-primal rings. (English summary) **98i:16020**
Marubayashi, Hidetoshi (*with* Yi, Zhong) Dubrovin valuation properties of skew group rings and crossed products. (English summary) **98k:16039**
Radwan, Abdelaziz E. (*with* Hussein, Salah El Din S.) Holonomic filtered modules in the category of micro-structure sheaves. **98a:16035**
Richman, Fred (*with* Walker, Elbert Abner) Filtered modules over discrete valuation domains. (English summary) **98k:13011**
Tabaâ, Mohamed Une note sur les topologies linéaires. [A note on linear topologies] **98g:13028**
Tam, Bit-Shun *see* **Barker, George Phillip, 98c:46107**
Walker, Elbert Abner *see* **Richman, Fred, 98k:13011**
Yi, Zhong *see* **Marubayashi, Hidetoshi, 98k:16039**

16W80 Topological and ordered rings and modules [see also 13Jxx]

Arnautov, V. I. On the extension of the pseudonorm of a ring to its ring of quotients. (Russian. English and Moldavian summaries)
— (*with* Filippov, K. M.) On premaximal topologies on vector spaces. (Russian. English, Russian and Moldavian summaries) **98m:16051**
Bordan, V. G. Bounded semidirect products of topological algebras. (Moldavian. English, Russian and Moldavian summaries)
— (*with* Ursul, M. I.) One class of topologically simple pro-Noetherian rings. (English, Russian and Moldavian summaries)
Cohen, Jo-Ann (*with* Koh, Kwangil) Topological and algebraic properties of the subgroup generated by the involutions in a compact ring. (English summary) (*see* **98d:54001**)
— (*with* Koh, Kwangil) Compact rings having a finite simple group of units. (English summary) **98e:16040**
Costash, A. I. The connected component of the group of units of a locally compact ring. (English, Russian and Moldavian summaries) **98m:16052**
Filippov, K. M. *see* **Arnautov, V. I., 98m:16051**
Klyushin, A. V. (*with* Kozhukhov, I. B.) Linearly compact semigroup rings. (English summary) **98m:16053**
Koh, Kwangil *see* **Cohen, Jo-Ann, 98e:16040** *and* (**98d:54001**)
Kozhukhov, I. B. *see* **Klyushin, A. V., 98m:16053**
Leung, Ka Hin (*with* Marshall, Murray A.; Zhang, Yu Fei[2]) The real spectrum of a noncommutative ring. **98j:16028**
Marshall, Murray A. *see* **Leung, Ka Hin; et al., 98j:16028**
Megrelishvili, Michael Minimal non-totally minimal topological rings. (English summary) **98k:16063**
Ursul, M. I. Topological rings with linearly compact open subrings. (English, Russian and Moldavian summaries) **98g:16033**
— *see also* **Bordan, V. G.**
Zhang, Yu Fei[2] *see* **Leung, Ka Hin; et al., 98j:16028**

Items with secondary classifications in 16W80

Ali, Mohamad Hasan (*with* Zelmanowitz, Julius M.) Discrete implies continuous. (English summary) **98h:16043**
Herbera, Dolors *see* **Phạm Ngọc Ánh; et al., 98m:16003**
Magill, Kenneth D., Jr. Topological N-groups where the nearrings are real nearrings. **98m:16058**
— Two-dimensional nonassociative Euclidean nearrings and the ring of hyperbolic numbers. (English summary) **98d:16058**
Menini, Claudia *see* **Phạm Ngọc Ánh; et al., 98m:16003**
Mojdeh, D. Initial ramification index of noninvariant valuations on finite-dimensional division algebras. (English summary) **98m:16019**
Phạm Ngọc Ánh (*with* Wiegandt, Richard) Compactness in categories and interpretations. (English summary) **98m:18002**
— (*with* Herbera, Dolors; Menini, Claudia) AB-5* and linear compactness. **98m:16003**
Pombo, Dinamérico P., Jr. A note on the paper: "Linear topologies and linear bornologies on modules" [J. Indian Math. Soc. (N.S.) **59** (1993), no. 1-4, 107–117; MR 94k:46010]. **98g:46003**
Priess-Crampe, S. (*with* Ribenboim, Paulo) Generalized ultrametric spaces. I. **98g:54069**
Ribenboim, Paulo *see* **Priess-Crampe, S., 98g:54069**
Sayed, Nawal Special kinds of fragments. (English summary) **98k:16011**
Steinberg, Stuart A. Convex elements in lattice-ordered rings and modules. **98a:06028**
Tabaâ, Mohamed Une note sur les topologies linéaires. [A note on linear topologies] **98g:13028**
Wiegandt, Richard *see* **Phạm Ngọc Ánh, 98m:18002**
Zelmanowitz, Julius M. *see* **Ali, Mohamad Hasan, 98h:16043**

16W99 None of the above, but in this section

Ameri, R. A. *see* **Zahedi, M. M.**
Chen, De-Gang (*with* Li, Su-Yun) Fuzzy factor rings. (English summary)
Li, Su-Yun *see* **Chen, De-Gang**
Zahedi, M. M. (*with* Ameri, R. A.) Fuzzy flat and faithfully flat R-modules. (English summary)
Zhang, Chengyi Fuzzy prime ideals and prime fuzzy ideals. (English summary)

Items with secondary classifications in 16W99

Kadeishvili, T. V. ★ Структура $A(\infty)$-алгебры в когомологиях и рациональный гомотопический тип. (Russian. English and Russian summaries) [The $A(\infty)$-algebra structure in cohomology, and rational homotopy type] **98j:55013**
Wang, Zhudeng (*with* Yu, Yandong) TL-subrings and TL-ideals. II. Generated TL-ideals. (English summary) **98b:06011**
Yu, Yandong *see* **Wang, Zhudeng, 98b:06011**

16Yxx Generalizations {For nonassociative rings, see 17–xx.}

16Y30 Near-rings [see also 12K05]

Abujabal, Hamza A. S. Commutativity and decomposition for near rings. (English summary)
Ahsan, Javed (*with* Liu, Zhongkui) Strongly idempotent seminearrings and their prime ideal spaces. **98k:16064**
— (*with* Mason, Gordon) Fully idempotent near-rings and sheaf representations. (English summary) **98m:16054**
Aichinger, Erhard Local interpolation near-rings as a frame-work for the density theorems. (English summary) **98h:16072**
— (*with* Nöbauer, Christof) The cardinalities of the endomorphism near-rings $I(G)$, $A(G)$, and $E(G)$ for all groups G with $|G| \leq 31$. (English summary) (*see* **98i:16002**)
Argaç, Nurcan On prime and semiprime near-rings with derivations. (English summary)
Bagley, Scott W. Polynomial near-rings: polynomials with coefficients from a near-ring. (English summary) **98i:16046**
— Distributor and J_2-radical ideals of generalized centralizer near-rings. (English summary) **98f:16031**
Beidar, K. I. (*with* Fong, Yuen; Ke, Wen-Fong) On the simplicity of centralizer nearrings. **98c:16059**
Bell, Howard E. On derivations in near-rings. II. (English summary) (*see* **98i:16002**)
Birch, P. (*with* Oswald, A.) Some comments on near-rings of mappings. (*see* **98g:00020**)
Birkenmeier, Gary F. Andrunakievich's lemma in near-rings. **98m:16055**
— (*with* Heatherly, Henry E.; Lee, Enoch K. S.) Special radicals for near-ring. (English summary) **98c:16060**
— (*with* Heatherly, Henry E.; Pilz, Günter F.) Near-rings and rings generated by homomorphisms on groups. (English summary) **98k:16065**
— (*with* Heatherly, Henry E.; Pilz, Günter F.) Homomorphisms on groups. I. Distributive and d.g. near-rings. **98d:16056**
Boykett, Tim Seminearrings of polynomials over semifields: a note on Blackett's Fredericton paper. (English summary) (*see* **98i:16002**)
Chowdhury, K. Ch. (*with* Saikia, Helen K.) On near-rings with ACC on annihilators. (English summary)
— *see also* **Saikia, Helen K., 98c:16062**
Cotti Ferrero, Celestina (*with* Ferrero, Giovanni) Near-rings with particular Clay semigroups. (Italian) **98m:16056**
De Stefano, Stefania (*with* Di Sieno, Simonetta) Near-rings with no nilpotent N-subsets. (Italian. English summary) **98a:16048**
Di Sieno, Simonetta *see* **De Stefano, Stefania, 98a:16048**
Eggetsberger, Roland A. Circles and their interior points from field generated Ferrero pairs. (English summary) **98k:16066**
Feigelstock, Shalom Distributively generated trivial near-rings.
Ferrero, Giovanni *see* **Cotti Ferrero, Celestina, 98m:16056**
Fong, Yuen (*with* Ke, Wen-Fong; Lee, Ting-Tsung) On weakly syntactic near-rings. (English summary) (*see* **98a:00006**)
— *see also* **Beidar, K. I.; et al., 98c:16059**
Fray, Roland L. On direct decompositions in group near-rings. (English summary) (*see* **98i:16002**)
Gabriel, Christian M. On involution sets induced by neardomains. (English summary) (*see* **98i:16002**)
Goyan, I. M. (*with* Marin, V.) Ideals in regular near-rings. (English, Russian and Moldavian summaries)
— (*with* Marin, V.) Prime and primary ideals in near-rings. (English, Russian and Moldavian summaries)
Groenewald, Nico J. Superprime near-rings. (*see* **98i:16002**)
— (*with* Olivier, W. A.) On regularities in near-rings. **98a:16049**
Heatherly, Henry E. *see* **Birkenmeier, Gary F.; et al., 98c:16060; 98d:16056** *and* **98k:16065**
Hotje, Herbert Fibered incidence loops by neardomains. (English summary) (*see* **98i:16002**)
Hur, Chang Kyu (*with* Kim, Hee Sik) On fuzzy relations of near-rings. (English summary)
Kaarli, Kalle On non-zerosymmetric near-rings with minimum condition. (English summary) **98m:16057**
Ke, Wen-Fong *see* **Beidar, K. I.; et al., 98c:16059** *and* **Fong, Yuen; et al., (98a:00006)**
Kim, Hee Sik *see* **Hur, Chang Kyu**
Kowol, G. Near-rings of endomorphisms of finite groups. **98g:16034**
Kyuno, S. (*with* Veldsman, Stefan) Morita contexts and radicals of near-rings. **98d:16057**
Lee, Enoch K. S. *see* **Birkenmeier, Gary F.; et al., 98c:16060**
Lee, Ting-Tsung *see* **Fong, Yuen; et al., (98a:00006)**
Liu, Yong Hui[1] Derivations of prime near-rings. (Chinese. English and Chinese summaries)
Liu, Zhongkui *see* **Ahsan, Javed, 98k:16064**
Lockhart, Robert Products on products on groups. (English summary) (*see* **98i:16002**)
Magill, Kenneth D., Jr. Topological N-groups where the nearrings are real nearrings. **98m:16058**
— A survey of topological nearrings and nearrings of continuous functions. (English summary) **98m:16059**
— Two-dimensional nonassociative Euclidean nearrings and the ring of hyperbolic numbers. (English summary) **98d:16058**
Mahmood, Suraiya J. (*with* Mansouri, Mona F.) Tensor product of near-ring modules. (English summary) (*see* **98i:16002**)
Mahmoud, Mashhour I. General hypernear-rings and hypernear-fields. (English summary)
Mansouri, Mona F. *see* **Mahmood, Suraiya J., (98i:16002)**
Marin, V. *see* **Goyan, I. M.**
Mason, Gordon *see* **Ahsan, Javed, 98m:16054**
Maxson, Carl J. Near-rings of homogeneous functions, P^3. (*see* **98i:16002**)
— When are local endomorphisms global? (English summary) **98a:16050**
— (*with* van der Merwe, A. B.) Rings of homogeneous functions. (English summary) **98m:16060**
Meldrum, John D. P. Nilpotence and endomorphism near-rings. (English summary) **98m:16061**
— (*with* Meyer, J. H.) The $\mathcal{J}_0$-radical of a matrix nearring can be intermediate. (English summary) **98c:16061**
van der Merwe, A. B. *see* **Maxson, Carl J., 98m:16060**
Meyer, J. H. On the near-ring counterpart of the matrix ring isomorphism $\mathbf{M}_{mn}(R) \cong \mathbf{M}_n(\mathbf{M}_m(R))$. **98d:16059**
— *see also* **Meldrum, John D. P., 98c:16061**
Morini, Fiorenza Strongly monogenic A-rigid nearrings.
Niewieczerzal, Dorota Distributively generated subrings of homogeneous maps. (*see* **98i:16002**)
Nöbauer, Christof *see* **Aichinger, Erhard, (98i:16002)**
Olivier, W. A. *see* **Groenewald, Nico J., 98a:16049**
Oswald, A. *see* **Birch, P., (98g:00020)**
Peterson, Gary Lee On an isomorphism problem for endomorphism near-rings. (English summary) **98h:16073**
Pilz, Günter F. On strange polynomial (near-)rings. (English summary) (*see* **98g:00020**)
— Categories of near-rings. (*see* **98i:16002**)
— *see also* **Birkenmeier, Gary F.; et al., 98d:16056** *and* **98k:16065**
Saad, Gerhard (*with* Syskin, Sergei A.; Thomsen, Momme Johs) The inner automorphism nearrings $I(G)$ on all nonabelian groups G of order $|G| \leq 100$. (English summary) (*see* **98i:16002**)
Saikia, Helen K. (*with* Chowdhury, K. Ch.) On near-ring subgroups of projective and $\tilde{d}$ near-ring groups. (English summary) **98c:16062**
— *see also* **Chowdhury, K. Ch.**
Shiao, L. S. (*with* Wang, Chiou-Shing) On semi-endomorphism near-rings of non-abelian groups of order pq. (English summary) **98b:16038**
Singh, S. Nabachandra A study on constant near-rings.
Stefănescu, Mirela E. Near-rings in connection with non-abelian cohomology of groups. (English summary) (*see* **98i:16002**)
Suryanarayanan, S. Near-rings with P_3-mate functions. (English summary)
Syskin, Sergei A. *see* **Saad, Gerhard; et al., (98i:16002)**
Thomsen, Momme Johs *see* **Saad, Gerhard; et al., (98i:16002)**
Vasantha Kandasamy, W. B. On fuzzy complex near rings.
Veldsman, Stefan On the salient properties of near-ring radicals. (English summary) **98k:16067**
— *see also* **Kyuno, S., 98d:16057**
Vuković, Veljko Certain relations between the distributor and the associator of the (nonassociative) near-rings. (English summary) (*see* **98b:00030**)
Wang, Chiou-Shing *see* **Shiao, L. S., 98b:16038**
Wei, Zong Xuan 3-prime near-rings with derivations. (Chinese. English and Chinese summaries) **98g:16035**

Items with secondary classifications in 16Y30

Bhavanari, Satyanarayana (*with* Kuncham, Syam Prasad) A result on E-direct systems in N-groups. (English summary)
Botha, Suzette G. Quasi-ideals and bi-ideals in categories. (English summary) **98j:18015**
Krempa, Jan Some examples of indecomposable modules. (English summary) (*see* **98i:16002**)
Kuncham, Syam Prasad *see* **Bhavanari, Satyanarayana**
Magill, Kenneth D., Jr. Topological nearrings on the Euclidean plane. (English summary) **98g:54090**
Pilz, Günter F. Near-rings have many connections to computer science. (English summary) **98f:68196**
(Saad, Gerhard) *see* **Nearrings, nearfields and K-loops, 98i:16002**
Stefănescu, Mirela E. Near-rings and geometry. (English summary) **98g:12013**
(Thomsen, Momme Johs) *see* **Nearrings, nearfields and K-loops, 98i:16002**
Wei, Zong Xuan Derivations of 3-prime near-rings. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Conference:
Nearrings and Nearfields ★ Nearrings, nearfields and K-loops. **98i:16002**
Hamburg ★ Nearrings, nearfields and K-loops. **98i:16002**
Nearrings, nearfields and K-loops ★ Nearrings, nearfields and K-loops. **98i:16002**

16Y60 Semirings [see also 12K10]

Biswas, B. K. *see* **Dutta, Tapan Kumar[1], 98c:16063**
Dutta, Tapan Kumar[1] (*with* Biswas, B. K.) Fuzzy congruence and quotient semiring of a semiring. (English summary) **98c:16063**
Ghosh, Shamik Fuzzy k-ideals of semirings. (English summary)

— *see also* **Mukherjee, T. K.; et al., 98d:16060**
Hall, M. (*with* Pianskool, S.) Injectivity for cancellative semimodules. **98c:16064**
Minoux, Michel Bideterminants, arborescences and extension of the matrix-tree theorem to semirings. (English summary) **98f:16032**
Mukherjee, T. K. (*with* Sen, Mridul Kanti; Ghosh, Shamik) On left p-Euclidean semirings. (English summary) **98d:16060**
Pianskool, S. *see* **Hall, M., 98c:16064**
Sen, Mridul Kanti *see* **Mukherjee, T. K.; et al., 98d:16060**

Items with secondary classifications in 16Y60

Ahsan, Javed (*with* Liu, Zhongkui) Strongly idempotent seminearrings and their prime ideal spaces. **98k:16064**
Allouche, Jean-Paul (*with* Cateland, E.; Peitgen, Heinz-Otto; Skordev, Gencho; Shallit, Jeffrey O.) Automatic maps on a semiring with digits. (English summary) **98e:11027**
Baader, Franz (*with* Nutt, Werner) Combination problems for commutative/monoidal theories or how algebra can help in equational unification. (English summary) **98j:08007**
Cateland, E. *see* **Allouche, Jean-Paul; et al., 98e:11027**
Chajda, Ivan (*with* Kotrle, M.) The variety Boolean semiring. **98e:06005**
Gaubert, Stéphane (*with* Plus, Max) Methods and applications of (max, +) linear algebra. (English summary) **98f:68205**
Golan, Jonathan S. (*with* Mateescu, Alexandru; Vaida, Dragoş) Semirings and parallel composition of processes. (English summary) **98f:68081**
Kotrle, M. *see* **Chajda, Ivan, 98e:06005**
Kuich, Werner Semirings and formal power series: their relevance to formal languages and automata. **98m:68152**
Liu, Zhongkui *see* **Ahsan, Javed, 98k:16064**
Mateescu, Alexandru *see* **Golan, Jonathan S.; et al., 98f:68081**
Nutt, Werner *see* **Baader, Franz, 98j:08007**
Peitgen, Heinz-Otto *see* **Allouche, Jean-Paul; et al., 98e:11027**
Plus, Max *see* **Gaubert, Stéphane, 98f:68205**
Shallit, Jeffrey O. *see* **Allouche, Jean-Paul; et al., 98e:11027**
Skordev, Gencho *see* **Allouche, Jean-Paul; et al., 98e:11027**
Vaida, Dragoş *see* **Golan, Jonathan S.; et al., 98f:68081**

16Y99 None of the above, but in this section

Aichinger, Erhard A note on simple composition rings. (English summary) (*see* **98i:16002**)
Ameri, R. A. (*with* Zahedi, M. M.) Fuzzy subhypermodules over fuzzy hyperrings. (English summary) (*see* **98c:20002**)
Biswas, Ranjit R-partition of rings. (English summary)
Chen, Qing Hua² Jacobson radicals, socles, and chain conditions in graded Γ-rings. (Chinese. English and Chinese summaries) **98c:16065**
Davvaz, B. On H_v-rings and fuzzy H_v-ideals. (English summary)
Nakajima, Atsushi *see* **Sapanci, Mehmet, 98h:16074**
Sapanci, Mehmet (*with* Nakajima, Atsushi) Jordan derivations on completely prime gamma rings. (English summary) **98h:16074**
Vasantha Kandasamy, W. B. Polynomial tri-operational rings. (English and Romanian summaries)
Wang, Ding Guo On normal antisimple radical of Γ_N-rings. **98e:16041**
— Γ-rings for which the Jacobson radical equals the simplicial radical in all homomorphic images. (Chinese. English and Chinese summaries)
— Supernilpotent radicals of Γ_N-rings. (English summary)
Zahedi, M. M. *see* **Ameri, R. A., (98c:20002)**

Items with secondary classifications in 16Y99

Booth, Geoffrey L. (*with* Groenewald, Nico J.) Special radicals of Ω-groups. (English summary) (*see* **98i:16002**)
De Moor, Bart L. R. *see* **De Schutter, Bart, 98m:15021**
De Schutter, Bart (*with* De Moor, Bart L. R.) The QR decomposition and the singular value decomposition in the symmetrized max-plus algebra. (English summary) **98m:15021**
Groenewald, Nico J. *see* **Booth, Geoffrey L., (98i:16002)**
Li, Sen Lin (*with* Yu, Yandong; Wang, Zhudeng) T-congruence L-relations on groups and rings. (English summary) **98g:04012**
Majernik, V. Multicomponent number systems. (English summary) **98m:30067**
Sawada, Hideki A note on associative triple systems of Hecke type of characteristic 0. (English summary) **98c:20008**
Vougiouklis, Thomas Hyperstructures and uniting elements. (Romanian summary) **98e:20075**
Wang, Zhudeng *see* **Li, Sen Lin; et al., 98g:04012**
Yu, Yandong *see* **Li, Sen Lin; et al., 98g:04012**

17–XX Nonassociative rings and algebras

17–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 17–01

Knapp, Anthony W. ★ Lie groups beyond an introduction. (English summary) **98b:22002**
Ward, John Patrick ★ Quaternions and Cayley numbers. (English summary) **98e:16001**

17–02 Research exposition (monographs, survey articles)

Vuković, Veljko ★ Nonassociative near-rings. **98e:17001**

Items with secondary classifications in 17–02

Kostrikin, Alekseĭ Ivanovich The beginnings of modular Lie algebra theory. (English summary) **98e:17028**
Lu, Cai Hui (*with* Zhang, Hechun; Zhao, Kai Ming) Complex Lie algebras in China. **98f:17005**
Weng, Lin (*with* You, Yuching) Standard modules of level 1 for $\widehat{sl}_2$ in terms of Virasoro algebra representations. **98m:17036**
You, Yuching *see* **Weng, Lin. 98m:17036**
Zhang, Hechun *see* **Lu, Cai Hui; et al., 98f:17005**
Zhao, Kai Ming *see* **Lu, Cai Hui; et al., 98f:17005**

17–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 17–03

(Harish-Chandra) *see* **Helgason, Sigurdur**
Helgason, Sigurdur Harish-Chandra and his mathematical legacy: some personal recollections.

17–04 Explicit machine computation and programs (not the theory of computation or programming)

de Graaf, Willem A. (*with* Ivanyos, Gábor; Rónyai, Lajos) Computing Cartan subalgebras of Lie algebras. (English summary) **98m:17001**
— ★ Algorithms for finite-dimensional Lie algebras. (Dutch summary) **98b:17001**
Ivanyos, Gábor *see* **de Graaf, Willem A.; et al., 98m:17001**
van Leeuwen, Marc A. A. (*with* Roelofs, Marcel) Termination for a class of algorithms for constructing algebras given by generators and relations. (English summary) **98m:17002**
Mikhalëv, A. A. *see* **Zolotykh, A. A., 98m:17004**
Roelofs, Marcel *see* **van Leeuwen, Marc A. A., 98m:17002**
Rónyai, Lajos *see* **de Graaf, Willem A.; et al., 98m:17001**
Schneider, Csaba Computing nilpotent quotients in finitely presented Lie rings. (English summary) **98m:17003**
Zolotykh, A. A. (*with* Mikhalëv, A. A.) A complex of algorithms for computations in Lie superalgebras. (Russian. Russian summary) **98m:17004**

17–06 Proceedings, conferences, collections, etc.

(Block, Richard E.) *see* **Modular interfaces, 98f:17001**
(Chari, Vyjayanthi) *see* **Modular interfaces, 98f:17001**
(Goze, Michel) *see* **Algebra laws and algebraic varieties, 98h:17001**
(Olshanskiĭ, Grigoriĭ) *see* **Kirillov's seminar on representation theory, 98m:17005**
(Penkov, Ivan B.) *see* **Modular interfaces, 98f:17001**

Items listed otherwise than by author

Algebra laws and algebraic varieties ★ Lois d'algèbres et variétés algébriques. (French) [Algebra laws and algebraic varieties] **98h:17001**
American Mathematical Society Translations, Series 2 ★ Kirillov's seminar on representation theory. **98m:17005**
Colloquium:
  Quantum Groups ★ Colloquium on the Quantum Groups. **98c:17001**
Colmar ★ Lois d'algèbres et variétés algébriques. (French) [Algebra laws and algebraic varieties] **98h:17001**
Conference:
  Algebra ★ Lois d'algèbres et variétés algébriques. (French) [Algebra laws and algebraic varieties] **98h:17001**
  Modular Interfaces ★ Modular interfaces. **98f:17001**
Kirillov's seminar on representation theory ★ Kirillov's seminar on representation theory. **98m:17005**
Lois d'algèbres et variétés algébriques ★ Lois d'algèbres et variétés algébriques. (French) [Algebra laws and algebraic varieties] **98h:17001**
Modular interfaces ★ Modular interfaces. **98f:17001**
Prague ★ Colloquium on the Quantum Groups. **98c:17001**
Riverside, CA ★ Modular interfaces. **98f:17001**

Items with secondary classifications in 17–06

(Alev, J.) *see* **Noncommutative algebra, quantum groups and invariants, 98g:00028**
(Arslanov, Marat) *see* **Algebra and analysis, 98b:00020**
(Cauchon, G.) *see* **Noncommutative algebra, quantum groups and invariants, 98g:00028**
(Chebotarev, N. G.) *see* **Algebra and analysis, 98b:00020**
(Parshin, A. N.) *see* **Algebra and analysis, 98b:00020**
(Shafarevich, Igor' Rostislavovich) *see* **Algebra and analysis, 98b:00020**
(Tsagas, Grigorios T.) *see* **New frontiers in algebras, groups and geometries, 98d:00020**

Items listed otherwise than by author

Algebra and analysis ★ Algebra and analysis. **98b:00020**
Algèbre non commutative, groupes quantiques et invariants ★ Algèbre non commutative, groupes quantiques et invariants. [Noncommutative algebra, quantum groups and invariants] **98g:00028**
Anniversary:
  Birth of Chebotarëv, Nikolaĭ Grigor'evich ★ Algebra and analysis. **98b:00020**
Conference:
  Algebra and Analysis ★ Algebra and analysis. **98b:00020**
  Noncommutative Algebra, Quantum Groups and Invariants ★ Algèbre non commutative, groupes quantiques et invariants. [Noncommutative algebra, quantum groups and invariants] **98g:00028**
Kazan ★ Algebra and analysis. **98b:00020**
Monteroduni ★ New frontiers in algebras, groups and geometries. **98d:00020**
New frontiers in algebras, groups and geometries ★ New frontiers in algebras, groups and geometries. **98d:00020**
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  New Frontiers in Algebras, Groups and Geometries ★ New frontiers in algebras, groups and geometries. **98d:00020**

17–08 Computational methods

de Graaf, Willem A. Calculating the structure of a semisimple Lie algebra. (English summary) **98e:17002**

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de Graaf, Willem A. ★ Algorithms for finite-dimensional Lie algebras. (Dutch summary) **98b:17001**
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17Axx General nonassociative rings

17A01 General theory

Plukas, M. On some properties of algebras with simple multiplication that contain associative subalgebras. (Russian. Russian summary) **98d:17001**

17A05 Power-associative

Items with secondary classifications in 17A05

Bowman, Kevin *see* **Towers, D. A., 98a:17059**
Towers, D. A. (*with* Bowman, Kevin) On power associative Bernstein algebras of arbitrary order. (English summary) **98a:17059**

17A20 Flexible algebras

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Elduque, Alberto Symmetric composition algebras. (English summary) **98m:17008**

17A25 Nodal algebras

Gainov, A. T. On finite-dimensional special monocomposition algebras. (Russian. Russian summary) **98d:17002**

17A30 Algebras satisfying other identities

Bai, Cheng Ming (*with* Meng, Dao Ji) Doubly symmetric algebras. (Chinese)
Benavides Gallardo, Raúl (*with* Mallol, Cristián) Pierce [Peirce] transformation, automorphisms and derivations in train algebras of rank 3. (English summary) **98a:17001**
Burde, Dietrich Simple left-symmetric algebras with solvable Lie algebra. (English summary) **98m:17006**
Chen, Hong Ji Novikov-Poisson algebra and their tensor product. (English summary)
Daletskiĭ, Yurii L'vovich (*with* Takhtajan, Leon A.) Leibniz and Lie algebra structures for Nambu algebra. (English summary) **98e:17003**
Dekimpe, Karel (*with* Igodt, Paul; Ongenae, Veerle) The five-dimensional complete left-symmetric algebra structures compatible with an abelian Lie algebra structure. (English summary) **98g:17001**
Gnedbaye, Allahtan Victor Suite spectrale d'une extension d'algèbres de Leibniz. (English and French summaries) [Spectral sequence of a Leibniz algebra extension] **98d:17003**
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Kamiya, Noriaki (*with* Santilli, Ruggero Maria) Embedding of Lie algebras in isogeneralized structurable algebras. (English summary)
Labra, Alicia Automorphisms in a class of Jordan Bernstein algebras of order 2. **98a:17002**
Livernet, Muriel Homotopie rationnelle des algèbres de Leibniz. (English and French summaries) [Rational homotopy of Leibniz algebras] **98g:17002**
Loday, Jean-Louis Overview on Leibniz algebras, dialgebras and their homology. (English summary) **98j:17001**
Mallol, Cristián (*with* Varro, Richard; Walkhoff, Alexander) Classification en dimension 4 des algèbres de Jordan de rang 3. (English summary) [Classification in dimension 4 of Jordan algebras of rank 3] **98c:17002**
— *see also* **Benavides Gallardo, Raúl, 98a:17001**
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Mikhalëv, A. A. (*with* Umirbaev, Ualbai U.) Subalgebras of free Leibniz algebras. (English summary) **98k:17001**
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Oudom, Jean-Michel Coproduct and cogroups in the category of graded dual Leibniz algebras. **98c:17003**
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Takhtajan, Leon A. *see* **Daletskiĭ, Yuriĭ L'vovich, 98e:17003**
Umirbaev, Ualbai U. *see* **Mikhalëv, A. A., 98k:17001**
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Xu, Xiaoping Novikov-Poisson algebras. (English summary) **98b:17002**

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Correa, Iván (*with* Labra, Alicia) Bernstein algebras satisfying a polynomial identity. (English summary) **98i:17044**
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Kubo, Fujio Noncommutative Poisson algebra structures on poset algebras and morphisms of Leibniz pairs. **98i:16029**
Labra, Alicia *see* **Correa, Iván, 98i:17044**
Vukovič, Veljko ★ Nonassociative near-rings. **98e:17001**

17A35 Division algebras

Abdel-Khalek, Khaled *see* **De Leo, Stefano, 98c:17004**
Carmody, Kevin Circular and hyperbolic quaternions, octonions, and sedenions—further results. (English summary) **98d:17004**
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Wene, G. P. Division algebras three-dimensional over algebraic number fields. (English summary) **98i:17001**
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17A36 Automorphisms, derivatives, other operators

Hopkins, Nora C. Generalized derivations of nonassociative algebras. **98e:17004**
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Costa, Roberto C. F. (*with* Suazo, A.) The multiplication algebra of a train algebra of rank 3. (English summary) **98i:17045**
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Zalar, Borut On the structure of automorphism and derivation pairs of B^*-triple systems. (English summary) **98a:46064**

17A40 Ternary compositions

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Castellón Serrano, Alberto (*with* García Martín, Amable; Martín González, Cándido) Strongly prime alternative triple systems with nonzero socle. (English summary) **98e:17005**
García Martín, Amable *see* **Castellón Serrano, Alberto; et al., 98e:17005**
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Kikkawa, Michihiko Generalization of Lie triple algebra. (English summary) **98f:17002**
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Abramov, Viktor (*with* Kerner, Richard; Le Roy, Bertrand) Hypersymmetry: a Z_3-graded generalization of supersymmetry. (English summary) **98i:58013**
Chajda, Ivan (*with* Halaš, Radomir; Machala, František) Congruences and ideals in ternary rings. (English summary) **98m:08002**
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Zalar, Borut On the structure of automorphism and derivation pairs of B^*-triple systems. (English summary) **98a:46064**
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17A42 Other n-ary compositions

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17A50 Free algebras

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Umirbaev, Ualbai U. *see* **Mikhalëv, A. A., 98k:17001**

17A70 Superalgebras

Albuquerque, Helena (*with* Elduque, Alberto) Classification of Mal'tsev superalgebras of small dimensions. (Russian. Russian summary) **98e:17006**
— (*with* Elduque, Alberto; Laliena Clemente, Jesús A.) Superalgebras with semisimple even part. **98d:17005**
Elduque, Alberto *see* **Albuquerque, Helena; et al., 98d:17005** *and* **98e:17006**
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Sevrin, A. *see* **Ragoucy, Eric; et al., 98a:81185**
Sorba, P. *see* **Ragoucy, Eric; et al., 98a:81185**
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17A75 Composition algebras

Cleven, Johannes The Cayley-Dickson doubling process revisited. (English summary) **98i:17002**
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— Symmetric composition algebras. (English summary) **98m:17008**
Hentzel, Irvin R. (*with* Peresi, Luiz A.) Identities of Cayley-Dickson algebras. (English summary) **98a:17004**
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Smirnov, Oleg N. Irreducible structurable bimodules over algebras generated by skew-symmetric elements. (Russian. Russian summary) **98d:17007**

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17Bxx Lie algebras and Lie superalgebras{For Lie groups, see 22Exx.}

Bäuerle, G. G. A. *see* **de Kerf, E. A.; et al., 98k:17002**
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17B01 Identities, free Lie algebras

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Bowman, Kevin (*with* Varea, V. R.) Modularity* in Lie algebras. (English summary) **98a:17006**
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— (*with* Yu, Jie-Tai) Test elements and retracts of free Lie algebras. (English summary) **98i:17004**
— *see also* **Zolotykh, A. A., 98j:17004**
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17B05 Structure theory

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17B10 Representations, algebraic theory (weights)

Alfaro, Jorge (*with* Medina, Ricardo; Urrutia, Luis F.) Orthogonality relations and supercharacter formulas of $U(m|n)$ representations. (English summary) **98i:17007**
Arnal, Didier (*with* Benammar, Mabrouk; Selmi, Mohamed) Normalisation d'une représentation non linéaire d'une algèbre de Lie. (English and French summaries) [Normalization of a nonlinear representation of a Lie algebra] **98h:17003**
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— (*with* Meng, Dao Ji) The vertex representation of the affine Lie algebra B_{∞}. (Chinese. English and Chinese summaries) **98d:17012**
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17Cxx Jordan algebras (algebras, triples and pairs)

17C05 Identities and free Jordan structures

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17C10 Structure theory

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17C17 Radicals

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17C27 Idempotents, Peirce decompositions

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17C36 Associated manifolds

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17C37 Associated geometries

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17C50 Jordan structures associated with other structures [see also 16W10]

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17C65 Jordan structures on Banach spaces and algebras [see also 46H70, 46L70]

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Zhang, Lun Chuan (*with* Ma, Ji Pu) Characterizations of hereditary and totally hereditary JB-subalgebras. (Chinese) **98f:46059**

17C70 Super structures

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17C90 Applications to physics

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18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

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18Bxx Special categories

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— Incompleteness in a topos. (Russian. English and Ukrainian summaries) **98h:03082**
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— T_3 and T_4-objects in topological categories. (English summary)

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Bonsangue, Marcello M. (*with* van Breugel, Franck; Rutten, J. J. M. M.) Generalized metric spaces: completion, topology, and powerdomains via the Yoneda embedding. (English summary) **98i:54015**

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— (*with* Kent, Darrell) On convergence approach spaces. (English summary) **98m:54007**

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Lord, Harriet Connectednesses and disconnectednesses. (English summary) **98g:54018**

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— *see also* **Banakh, T. O.**

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Wang, Guo Jun[1] (*with* Li, Yong Ming) Relations among the category of topological molecular lattices and certain related categories. **98c:06006**

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18B35 Preorders, orders and lattices (viewed as categories) [see also 06–XX]

Items with secondary classifications in 18B35

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van Geldrop, Rik *see* **Backhouse, Roland; et al.**, **98c:68124**

Koslowski, Jürgen Note on free algebras over continuous domains. (English summary) **98h:08006**

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18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [see also 20Axx, 20Lxx, 20Mxx]

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Popescu, Paul Categories of modules with differentials. **98e:16007**

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— (*with* Rosický, Jiří) A remark on accessible and axiomatizable categories. (English summary) **98i:18001**

Bak, Anthony Global actions: an algebraic double of a topological space. (Russian) **98k:18004**

Brown, Ronald (*with* Janelidze, George) Van Kampen theorems for categories of covering morphisms in lextensive categories. (English summary) **98c:18004**

Jacobs, B. P. F. Parameters and parametrization in specification, using distributive categories. (English summary) **98f:18007**

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Kleisli, Heinrich (*with* Röhrl, Helmut) Convexity theories. 0. Fin. Foundations. (English summary) **98b:18008**

Koganov, A. V. Processes and automorphisms on inductor spaces. (English summary) **98c:18005**

Madden, James J. (*with* Martinez, Jorge[2]) Monoreflections of commutative rings with identity. (English summary)

Martinez, Jorge[2] *see* **Madden, James J.**

Nishimura, Hirokazu Logical quantizations of first-order structures. (English summary) **98g:18005**

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Adámek, Jiří How to sketch quasivarieties. (English summary) **98k:03075**

Aguilar, Marcelo Alberto (*with* Socolovsky, M.) On the geometry of quantum states. (English summary) **98j:81046**

Alberich, R. (*with* Moyà, M.; Rosselló-Llompart, Francesc; Sastre, Llorenç) A note on a series of papers by Burmeister and Wojdyło. **98i:08004**

Baldinger, Robert (*with* McCammond, Jonathan) Gaps in the categories of finite directed and finite transitive graphs. **98m:18001**

Barr, Michael Note on a theorem of Putnam's. (English summary) **98g:03089**

Cockett, J. R. B. (*with* Spooner, D. A.) Categories for synchrony and asynchrony. (English summary) **98h:68148**

Dotti, Filippo The category of theories and interpretations. (Italian. English summary) **98h:03080**

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Hermida, Claudio (*with* Jacobs, B. P. F.) An algebraic view of structural induction. (English summary) **98f:68185**

Isbell, John Some structure of Borel locales. (English summary) **98j:54064**

Jacobs, B. P. F. *see* **Hermida, Claudio**, **98f:68185**

Kashu, A. I. Lattices of submodules and Galois connections. (English and Moldavian summaries)

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Pedersen, Gert K. Extensions of C^*-algebras. **98m:46073**

Piessens, Frank (*with* Steegmans, Eric) Canonical forms for data-specifications. (English summary) **98d:68059**

Plotkin, Boris Varieties of algebras and algebraic varieties. (English summary) **98c:08011**

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Romeo, P. G. Universal regular semigroup of a concordant semigroup. (English summary) **98f:20045**

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Taentzer, Gabriele Parallel high-level replacement systems. (English summary) **98h:68135**

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18Cxx Categories and algebraic theories

Fresse, Benoit ★ Cogroupe dans les algèbres sur une opérade. (French. French summary) [Cogroups in algebras over an operad]

18C05 Equational categories [see also 03C05, 08C05]

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— On certain classes of categories and monoids constructed from abstract Mal′cev clones. IV. (English summary) **98a:18005b**
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18C10 Theories (e.g. algebraic theories), structure, and semantics [see also 03G30]

Benson, David B. Multilinearity of sketches. (English summary) **98j:18006**
Crole, Roy L. On fixpoint objects and gluing constructions. (English summary) **98e:18006**
Ésik, Zoltán (*with* Labella, Anna) Equational properties of iteration in algebraically complete categories. (English summary) **98j:18007**
Fox, Thomas F. (*with* Markl, Martin) Distributive laws, bialgebras, and cohomology. (English summary) **98a:18006**
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Markl, Martin Cotangent cohomology of a category and deformations. (English summary) **98f:18008**
— *see also* **Fox, Thomas F., 98a:18006**
Massol, A. Minimality of the system of seven equations for the category of finite sets. (English summary) **98h:18007**
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Bourn, D. (*with* Janelidze, George) Protomodularity, descent, and semidirect products. (English summary) **98m:18006**
Dybjer, Peter Representing inductively defined sets by wellorderings in Martin-Löf's type theory. (English summary) **98d:03013**
Fu, Yu Xi Categorical properties of logical frameworks. (English summary) **98g:03150**
Hu, Hongde (*with* Joyal, André) Coherence completions of categories and their enriched softness. (English summary) **98j:68101**
Janelidze, George (*with* Pedicchio, Maria Cristina) Internal categories and groupoids in congruence modular varieties. (English summary) **98f:08003**
— (*with* Kelly, G. M.) The reflectiveness of covering morphisms in algebra and geometry. (English summary) **98k:18002**
— *see also* **Bourn, D., 98m:18006**
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Kobayashi, Satoshi[1] Monad as modality. (English summary) **98h:03081**
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— Generalized sketches as a framework for completeness theorems. II. **98a:03104**
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18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [see also 18Gxx]

Coppey, L. Leçons commentées sur les monades. [Expanded lectures on monads] **98j:18008**
Flagg, Robert C. Algebraic theories of compact pospaces. (English summary) **98f:18009**
Kinoshita, Yoshiki (*with* Power, Anthony John) Lax naturality through enrichment. (English summary) **98f:18010**
Loday, Jean-Louis La renaissance des opérades. (French summary) [The rebirth of operads] **98b:18010**
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Bunge, Marta C. (*with* Funk, Jonathon) Spreads and the symmetric topos. (English summary) **98f:18003**
Carboni, Aurelio (*with* Johnstone, Peter) Connected limits, familial representability and Artin glueing. (English summary) **98f:18005**
Fox, Thomas F. (*with* Markl, Martin) Distributive laws, bialgebras, and cohomology. (English summary) **98a:18006**
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— *see also* **Kinoshita, Yoshiki; et al., 98h:18006**
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— A functional representation of the hyperspace monad. (English summary) **98k:54012**
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18C20 Algebras and Kleisli categories associated with monads

Teleiko, A. On extension of functors to the Kleisli category of some weakly normal monads. (English summary) **98f:18011**

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Glenn, Paul G. Identification of certain structures as split opfibrations over Δ^{op}. (English summary) **98h:18004**
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— (*with* Rosický, Jiří) Finite models of sketches. (English summary) **98i:18003**
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18Dxx Categories with structure

18D05 Double categories, 2-categories, bicategories, hypercategories

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Gordon, Robert (*with* Power, Anthony John) Enrichment through variation. (English summary) **98i:18004**
Kharlamov, Viatcheslav (*with* Turaev, Vladimir G.) On the definition of the 2-category of 2-knots. **98g:18006**
Koslowski, Jürgen Monads and interpolads in bicategories. (English summary) **98g:18007**
Mohri, Takahisa On formalization of bicategory theory. (English summary) (*see* **98i:68018**)
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Items with secondary classifications in 18D05

Baues, Hans-Joachim On the cohomology of categories, universal Toda brackets and homotopy pairs. (English summary) **98h:55020**
Blute, R. F. (*with* Cockett, J. R. B.; Seely, R. A. G.) ! and ?—storage as tensorial strength. (English summary) **98a:03094**
— (*with* Cockett, J. R. B.; Seely, R. A. G.) Categories for computation in context and unified logic. (English summary) **98f:68170**
Cockett, J. R. B. *see* **Blute, R. F.; et al., 98a:03094** *and* **98f:68170**

Gadducci, Fabio (*with* Montanari, Ugo) Enriched categories as models of computation. (English summary) **98h:68154**
Grandis, Marco Categorically algebraic foundations for homotopical algebra. (English summary) **98m:55017**
Heller, Alex Homological algebra and (semi)stable homotopy. (English summary) **98g:18013**
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Kelly, G. M. (*with* Lack, Stephen) On property-like structures. (English summary) **98h:18005**
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18D10 Monoidal categories (= multiplicative categories) [see also 19D23]

Baues, Hans-Joachim (*with* Dzhibladze, M. A.; Tonks, Andy) Cohomology of monoids in monoidal categories. **98a:18007**
Bespalov, Yu. N. Crossed modules, quantum braided groups and ribbon structures. (English and Russian summaries) **98g:18008**
— Crossed modules and quantum groups in braided categories. (English summary) **98k:18005**
Daletskiĭ, Yuriĭ L'vovich Differential-geometric structures in operads. (Russian. English and Ukrainian summaries) **98h:18008**
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González Rodríguez, Ramón ★ La sucesión exacta $\mathrm{Pic}(\mathscr{C}) \to \mathrm{Pic}(\mathscr{D}) \to K_1A(F) \to \mathrm{Br}(\mathscr{C}) \to \mathrm{Br}(\mathscr{D})$ en categorías cerradas. Aplicación a la teoría de invariantes relativos de haces de módulos. (Spanish) [The exact sequence $\mathrm{Pic}(\mathscr{C}) \to \mathrm{Pic}(\mathscr{D}) \to K_1A(F) \to \mathrm{Br}(\mathscr{C}) \to \mathrm{Br}(\mathscr{D})$ in closed categories. Application to the theory of relative invariants of sheaves of modules] **98d:18002**
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18D25 Strong functors, strong adjunctions

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18E20 Embedding theorems [see also 18B15]

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18E30 Derived categories, triangulated categories

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18Fxx Categories and geometry

18F10 Grothendieck topologies [see also 14F20]

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18F15 Abstract manifolds and fiber bundles [see also 55Rxx, 57Pxx]

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18F20 Presheaves and sheaves [see also 14F05, 32C35, 32L10, 54B40, 55N30]

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18F30 Grothendieck groups [see also 13D15, 16E20, 19Axx]

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18F99 None of the above, but in this section

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Aguilar, Marcelo Alberto (*with* Socolovsky, M.) Naturalness of the space of states in quantum mechanics. (English summary) **98j:81195**
Pelletier, J. Wick Von Neumann algebras and Hilbert quantales. (English summary) **98j:46083**
Socolovsky, M. *see* **Aguilar, Marcelo Alberto, 98j:81195**

18Gxx Homological algebra [see also 13Dxx, 16Exx, 55Uxx]

18G05 Projectives and injectives [see also 13C10, 13C11, 16D40, 16D50]

Powell, Geoffrey M. L. The structure of indecomposable injectives in generic representation theory. (English summary) **98m:18004**

Items with secondary classifications in 18G05

Branner, Frank M. (*with* Enochs, Edgar E.) Homology with models and Tor. (English summary) **98c:18008**
Enochs, Edgar E. *see* **Branner, Frank M., 98c:18008**
Golasiński, Marek Componentwise injective models of functors to DGAs. **98b:55012**
Hu, Hongde (*with* Tholen, Walter) A note on free regular and exact completions and their infinitary generalizations. (English summary) **98e:18001**
Tholen, Walter *see* **Hu, Hongde, 98e:18001**

18G10 Resolutions; derived functors [see also 18E25]

Heller, Alex Homological algebra and (semi)stable homotopy. (English summary) **98g:18013**

Items with secondary classifications in 18G10

Fox, Thomas F. (*with* Markl, Martin) Distributive laws, bialgebras, and cohomology. (English summary) **98a:18006**
Johnson, Brenda (*with* McCarthy, Randy) Linearization, Dold-Puppe stabilization, and Mac Lane's Q-construction. (English summary) **98i:18007**
Markl, Martin *see* **Fox, Thomas F., 98a:18006**

McCarthy, Randy *see* **Johnson, Brenda**, **98i:18007**
McGibbon, C. A. (*with* Steiner, Richard) Some questions about the first derived functor of the inverse limit. (English summary) **98c:20098**
Steiner, Richard *see* **McGibbon, C. A.**, **98c:20098**
Zheng, Qibing Twisted product and cohomology. (English summary) **98d:57069**

18G15 Ext and Tor, generalizations, Künneth formula [see also 55U25]

Branner, Frank M. (*with* Enochs, Edgar E.) Homology with models and Tor. (English summary) **98c:18008**
Enochs, Edgar E. *see* **Branner, Frank M.**, **98c:18008**

Items with secondary classifications in 18G15

Betley, Stanislaw On stable K-theory with twisted coefficients. **98a:19002**
Gatsinzi, J.-B. The homotopy Lie algebra of classifying spaces. (English summary) **98g:55015**
Lomonaco, Luciano The diagonal cohomology of the universal Steenrod algebra. (English summary) **98f:55016**
Powell, Geoffrey M. L. A note on polynomial functors and Ext^1 groups. **98h:20087**

18G25 Relative homological algebra, projective classes

Generalov, A. I. Relative homological algebra. Cohomology of categories, posets and coalgebras. **98d:18005**

Items with secondary classifications in 18G25

Carlson, Jon F. (*with* Peng, Chuang) Relative projectivity and ideals in cohomology rings. (English summary) **98g:20086**
Peng, Chuang *see* **Carlson, Jon F.**, **98g:20086**

18G30 Simplicial sets, simplicial objects (in a category) [see also 55U10]

Arvasi, Zekeriya (*with* Porter, Timothy) Higher-dimensional Peiffer elements in simplicial commutative algebras. (English summary) **98g:18014**
— Crossed squares and 2-crossed modules of commutative algebras. (English summary) **98i:18006**
Johnson, Brenda (*with* McCarthy, Randy) Linearization, Dold-Puppe stabilization, and Mac Lane's Q-construction. (English summary) **98i:18007**
McCarthy, Randy *see* **Johnson, Brenda**, **98i:18007**
Porter, Timothy *see* **Arvasi, Zekeriya**, **98g:18014**
Rakowski, Mark (*with* Sen, Siddhartha[1]) Homology in abelian lattice models. (English summary) **98k:18008**
Sen, Siddhartha[1] *see* **Rakowski, Mark**, **98k:18008**

Items with secondary classifications in 18G30

Dubois-Violette, Michel Generalized differential spaces with $d^N = 0$ and the q-differential calculus. (English summary) **98g:18016**
Ehlers, P. J. (*with* Porter, Timothy) Varieties of simplicial groupoids. I. Crossed complexes. (English summary) **98d:55012**
Glenn, Paul G. Identification of certain structures as split opfibrations over Δ^{op}. (English summary) **98h:18004**
Irmatov, A. A. Estimates for the number of threshold functions. (Russian. Russian summary) **98d:05014**
Pataraia, D. Internal categories in a left exact cosimplicial category. (English summary) **98h:18002**
Porter, Timothy *see* **Ehlers, P. J.**, **98d:55012**
Turner, James M. Operations and spectral sequences. I. (English summary) **98m:18005**

18G35 Chain complexes [see also 18E30, 55U15]

Barr, Michael Acyclic models. (English summary) **98b:18021**
Gorinov, A. G. On the cohomology of double complexes. (Russian) **98k:18009**

Items with secondary classifications in 18G35

Dubois-Violette, Michel Generalized differential spaces with $d^N = 0$ and the q-differential calculus. (English summary) **98g:18016**
Hovey, Mark A. (*with* Palmieri, John H.; Strickland, Neil P.) Axiomatic stable homotopy theory. (English summary) **98a:55017**
Palmieri, John H. *see* **Hovey, Mark A.**; **et al.**, **98a:55017**
Ranicki, Andrew 45 slides on chain duality. (English summary) **98e:57048**
Strickland, Neil P. *see* **Hovey, Mark A.**; **et al.**, **98a:55017**

18G40 Spectral sequences, hypercohomology [see also 55Txx]

Turner, James M. Operations and spectral sequences. I. (English summary) **98m:18005**

Items with secondary classifications in 18G40

Intermont, Michele An equivariant van Kampen spectral sequence. (English summary) **98e:55013**

18G50 Nonabelian homological algebra

Bourn, D. (*with* Janelidze, George) Protomodularity, descent, and semidirect products. (English summary) **98m:18006**
Bullejos, M. A note on Hacque's cohomology of rings-groups and extensions of rings-groups by groups. **98m:18007**
Franco, Leoncio Simplicial derivation, higher Baer invariants and homology of crossed modules. (English summary) **98m:18008**
Fresse, Benoit Opérations de Cartan pour les algèbres simpliciales sur une opérade. (English and French summaries) [Cartan operations for simplicial algebras over an operad] **98c:18009**
Grandis, Marco Simplicial homotopical algebra and satellites. (English summary) **98f:18014**
Inasaridze, Kh. N. ★ Non-abelian homological algebra and its applications. (English summary) **98j:18018**
Janelidze, George *see* **Bourn, D.**, **98m:18006**

Items with secondary classifications in 18G50

Baues, Hans-Joachim (*with* Dzhibladze, M. A.; Tonks, Andy) Cohomology of monoids in monoidal categories. **98a:18007**
Borovoi, M. V. Abelian Galois cohomology of reductive groups. (English summary) **98j:20061**
Dzhibladze, M. A. *see* **Baues, Hans-Joachim**; **et al.**, **98a:18007**
Generalov, A. I. Relative homological algebra. Cohomology of categories, posets and coalgebras. **98d:18005**
Inasaridze, Kh. N. Non-abelian cohomology of groups. (English summary) **98g:20083**
— Non-abelian cohomology with coefficients in crossed bimodules. (English summary) **98k:20089**
Tonks, Andy *see* **Baues, Hans-Joachim**; **et al.**, **98a:18007**
Wambst, Marc Hochschild and cyclic homology of the quantum multiparametric torus. (English and French summaries) **98c:16008**

18G55 Nonabelian homotopical algebra

Cordier, Jean-Marc (*with* Porter, Timothy) Categorical aspects of equivariant homotopy. (English summary) **98a:18008**
G. Cabello, Julia Simplicial groups as models for n-types. (French summary) **98f:18015**
Porter, Timothy *see* **Cordier, Jean-Marc**, **98a:18008**

Items with secondary classifications in 18G55

Arvasi, Zekeriya (*with* Porter, Timothy) Higher-dimensional Peiffer elements in simplicial commutative algebras. (English summary) **98g:18014**
— Crossed squares and 2-crossed modules of commutative algebras. (English summary) **98i:18006**
Baues, Hans-Joachim (*with* Conduché, Daniel) On the 2-type of an iterated loop space. (English summary) **98k:55007**
Conduché, Daniel *see* **Baues, Hans-Joachim**, **98k:55007**
Ehlers, P. J. (*with* Porter, Timothy) Varieties of simplicial groupoids. I. Crossed complexes. (English summary) **98d:55012**
Grandis, Marco Simplicial homotopical algebra and satellites. (English summary) **98f:18014**
— Categorically algebraic foundations for homotopical algebra. (English summary) **98m:55017**
Hesselholt, Lars Witt vectors of non-commutative rings and topological cyclic homology. **98h:19003**
Inasaridze, Kh. N. Non-abelian cohomology of groups. (English summary) **98g:20083**
Jardine, J. F. A closed model structure for differential graded algebras. (English summary) (*see* **98e:00017**)
Porter, Timothy *see* **Ehlers, P. J.**, **98d:55012** *and* **Arvasi, Zekeriya**, **98g:18014**
Schwede, Stefan Spectra in model categories and applications to the algebraic cotangent complex. (English summary) **98h:55027**

18G60 Other (co)homology theories (cyclic, dihedral, etc.) [see also 19D55, 46L80, 58B30, 58G12]

Barr, Michael Cartan-Eilenberg cohomology and triples. (English summary) **98g:18015**
Dubois-Violette, Michel Generalized differential spaces with $d^N = 0$ and the q-differential calculus. (English summary) **98g:18016**
Sklyarenko, E. G. Hyper(co)homology for left-exact covariant functors, and homology theory of topological spaces. (Russian) **98g:18017**

Items with secondary classifications in 18G60

Baues, Hans-Joachim On the cohomology of categories, universal Toda brackets and homotopy pairs. (English summary) **98h:55020**
Betley, Stanislaw On stable K-theory with twisted coefficients. **98a:19002**
Block, Jonathan (*with* Weinberger, Shmuel) Large scale homology theories and geometry. **98h:57001**
Cuntz, Joachim J. R. Bivariante K-Theorie für lokalkonvexe Algebren und der Chern-Connes-Charakter. (English summary) [Bivariant K-theory for locally convex algebras and the Chern-Connes character] **98h:19006**
Fox, Thomas F. (*with* Markl, Martin) Distributive laws, bialgebras, and cohomology. (English summary) **98a:18006**
Franjou, Vincent (*with* Pirashvili, Teimuraz) On the Mac Lane cohomology for the ring of integers. **98h:19002**
Gnedbaye, Allahtan Victor Opérades des algèbres $(k+1)$-aires. [Operads of $(k+1)$-ary algebras] **98a:17003**
Khalkhali, Masoud On Cartan homotopy formulas in cyclic homology. **98k:19003**
Loday, Jean-Louis ★ Cyclic homology. **98h:16014**
Markl, Martin *see* **Fox, Thomas F.**, **98a:18006**
Oudom, Jean-Michel Coproduct and cogroups in the category of graded dual Leibniz algebras. **98c:17003**
Pirashvili, Teimuraz *see* **Franjou, Vincent**, **98h:19002** *and* **Loday, Jean-Louis**, **98h:16014**
(Ronco, Maria O.) *see* **Loday, Jean-Louis**, **98h:16014**
Weinberger, Shmuel *see* **Block, Jonathan**, **98h:57001**

18G99 None of the above, but in this section

Baues, Hans-Joachim (*with* Tonks, Andy) On sum-normalised cohomology of categories,

twisted homotopy pairs and universal Toda brackets. **98k:18010**

Grandis, Marco Cubical homotopical algebra and cochain algebras. (English summary) **98d:18006**

Tonks, Andy *see* **Baues, Hans-Joachim, 98k:18010**

Items with secondary classifications in 18G99

Baues, Hans-Joachim (*with* Hartl, Manfred) On the homotopy category of Moore spaces and the cohomology of the category of abelian groups. (English summary) **98a:55009**

Hartl, Manfred *see* **Baues, Hans-Joachim, 98a:55009**

Ladra González, Manuel *see* **R.-Grandjeán L.-Valcárcel, Alfredo, 98m:16014**

Li, Tao Sheng A generalization of the 3×3 lemma and its application. (Chinese. English and Chinese summaries)

Loday, Jean-Louis La renaissance des opérades. (French summary) [The rebirth of operads] **98b:18010**

Markl, Martin Cotangent cohomology of a category and deformations. (English summary) **98f:18008**

May, J. Peter Stable algebraic topology and stable topological algebra. **98k:55009**

Pareigis, Bodo Reconstruction of hidden symmetries. **98h:18009**

Piriou, Laurent Sous-objets de $\overline{T} \otimes \Lambda^n$ dans la catégorie des foncteurs entre $\mathbf{F}_2$-espaces vectoriels. (English summary) [Subobjects of $\overline{T} \otimes \Lambda^n$ in the category of functors between $\mathbf{F}_2$-vector spaces] **98h:18012**

R.-Grandjeán L.-Valcárcel, Alfredo (*with* Ladra González, Manuel) Nilpotent crossed modules for homology. **98m:16014**

Stasheff, Jim From operads to "physically" inspired theories. (English summary) **98b:55021**

19–XX K-theory [see also 16E20, 18F25]

19–02 Research exposition (monographs, survey articles)

Kuku, Aderemi O. Some recent developments in the K-theory of group rings, and orders in algebras. **98b:19001**

Items with secondary classifications in 19–02

Fillmore, Peter A. From K-theory to E-theory. (*see* **98f:00020**)

19–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 19–03

Li, Fu-an (*with* You, Hong) Recent progress on classical groups and algebraic K-theory in China. **98d:20053**

You, Hong *see* **Li, Fu-an**, **98d:20053**

19–06 Proceedings, conferences, collections, etc.

(Snaith, Victor P.) *see* **Algebraic K-theory**, **98d:19001**

Items listed otherwise than by author

Algebraic K-theory ★ Algebraic K-theory. **98d:19001**

Conference:

Algebraic K-Theory ★ Algebraic K-theory. **98d:19001**

Toronto, ON ★ Algebraic K-theory. **98d:19001**

19Axx Grothendieck groups and K_0 [see also 13D15, 18F30]

19A22 Frobenius induction, Burnside and representation rings

Luca, Florian The defect of the completion of a Green functor. (English summary) **98j:19001**

Items with secondary classifications in 19A22

Boltje, Robert Class group relations from Burnside ring idempotents. (English summary) **98i:20006**

Catalano, Michael Stable splittings of BP for some P of order thirty-two. (English summary) **98a:55013**

Kõck, Bernhard On Adams operations on the higher K-theory of group rings. (English summary) **98j:19002**

Oda, Fumihito On defect groups of the Mackey algebras for finite groups. (English summary) **98i:20009**

19A31 K_0 of group rings and orders

Items with secondary classifications in 19A31

Burns, David J. (*with* Chinburg, Ted) Adams operations and integral Hermitian-Galois representations. **98g:11126**

Chinburg, Ted *see* **Burns, David J.**, **98g:11126**

Cougnard, Jean Anneaux d'entiers et groupes de quaternions. [Rings of integers and quaternionic groups] **98m:11120**

Feng, Liang Gui The meta-Grothendieck group of a ring. (English summary) **98g:16005**

Gustafson, William H. The representation ring of a group of prime order. (English summary) **98h:20010**

Holland, Martin P. K-theory of endomorphism rings and of rings of invariants. (English summary) **98c:16006**

Kõck, Bernhard On Adams operations on the higher K-theory of group rings. (English summary) **98j:19002**

— Adams operations for projective modules over group rings. (English summary) **98g:13013**

Lorenz, Martin Picard groups of multiplicative invariants. (English summary) **98m:13019**

Upadhyay, Shashidhar Controlled algebraic K-theory of integral group ring of SL(3, **Z**). (English summary) **98i:19003**

19A49 K_0 of other rings

Fang, Jian[1] Remarks on Grothendieck groups. (English and Chinese summaries)

Items with secondary classifications in 19A49

Laubenbacher, Reinhard C. (*with* Woodburn, Cynthia J.) An algorithm for the Quillen-Suslin theorem for monoid rings. (English summary) **98f:13027**

Pardo, E. Metric completions of ordered groups and K_0 of exchange rings. (English summary) **98e:46088**

Powell, Geoffrey M. L. The structure of $\overline{I} \rtimes \Lambda^n$ in generic representation theory. (English summary) **98g:55020**

Woodburn, Cynthia J. *see* **Laubenbacher, Reinhard C.**, **98f:13027**

Zhang, Li Hong k_0 of abelian regular rings and the equivalence of their module categories. (Chinese. English and Chinese summaries)

19A99 None of the above, but in this section

Items with secondary classifications in 19A99

González Rodríguez, Ramón ★ La sucesión exacta $\mathrm{Pic}(\mathscr{C}) \to \mathrm{Pic}(\mathscr{D}) \to K_1A(F) \to \mathrm{Br}(\mathscr{C}) \to \mathrm{Br}(\mathscr{D})$ en categorías cerradas. Aplicación a la teoría de invariantes relativos de haces de módulos. (Spanish) [The exact sequence $\mathrm{Pic}(\mathscr{C}) \to \mathrm{Pic}(\mathscr{D}) \to K_1A(F) \to \mathrm{Br}(\mathscr{C}) \to \mathrm{Br}(\mathscr{D})$ in closed categories. Application to the theory of relative invariants of sheaves of modules] **98d:18002**

Kellendonk, Johannes Topological equivalence of tilings. (English summary) **98k:52053**

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Álxebra *see* **González Rodríguez, Ramón**, **98d:18002**

19Bxx Whitehead groups and K_1

19B10 Stable range conditions

Items with secondary classifications in 19B10

Nagisa, Masaru Stable rank of some full group C^*-algebras of groups obtained by the free product. (English summary) **98i:46057**

Perera, Francesc The structure of positive elements for C^*-algebras with real rank zero. (English summary) **98i:46058**

19B28 K_1 of group rings and orders [see also 57Q10]

Items with secondary classifications in 19B28

Kiralis, Geoffrey (*with* Krstić, Sava; McCool, James) Finite presentability of $\Phi_n(G)$, $\mathrm{GL}_n(\mathbf{Z}G)$ and their elementary subgroups and Steinberg groups. **98a:20046**

Kõck, Bernhard On Adams operations on the higher K-theory of group rings. (English summary) **98j:19002**

Krstić, Sava *see* **Kiralis, Geoffrey; et al.**, **98a:20046**

Kuku, Aderemi O. Some recent developments in the K-theory of group rings, and orders in algebras. **98b:19001**

McCool, James *see* **Kiralis, Geoffrey; et al.**, **98a:20046**

Upadhyay, Shashidhar Controlled algebraic K-theory of integral group ring of SL(3, **Z**). (English summary) **98i:19003**

19B37 Congruence subgroup problems [see also 20H05]

Items with secondary classifications in 19B37

Platonov, V. P. (*with* Sury, B.) Adelic profinite groups. **98e:20054**

Sury, B. *see* **Platonov, V. P.**, **98e:20054**

19B99 None of the above, but in this section

Song, Guangtian The Whitehead groups of semigroups. (English summary) **98f:19001**

Items with secondary classifications in 19B99

González Rodríguez, Ramón ★ La sucesión exacta $\mathrm{Pic}(\mathscr{C}) \to \mathrm{Pic}(\mathscr{D}) \to K_1A(F) \to \mathrm{Br}(\mathscr{C}) \to \mathrm{Br}(\mathscr{D})$ en categorías cerradas. Aplicación a la teoría de invariantes relativos de haces de módulos. (Spanish) [The exact sequence $\mathrm{Pic}(\mathscr{C}) \to \mathrm{Pic}(\mathscr{D}) \to K_1A(F) \to \mathrm{Br}(\mathscr{C}) \to \mathrm{Br}(\mathscr{D})$ in closed categories. Application to the theory of relative invariants of sheaves of modules] **98d:18002**

Prassidis, Strutos A split exact sequence of equivariant K-groups of virtually nilpotent groups. (English summary) **98j:57038**

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Álxebra *see* **González Rodríguez, Ramón**, **98d:18002**

19Cxx Steinberg groups and K_2

19C09 Central extensions and Schur multipliers

Items with secondary classifications in 19C09

Deligne, P. Extensions centrales de groupes algébriques simplement connexes et cohomologie galoisienne. [Central extensions of simply connected algebraic groups and Galois cohomology] **98d:14056**

19C20 Symbols, presentations and stability of K_2

Items with secondary classifications in 19C20

Keune, Frans Quadratic number fields having $\{-1, -1\}$ as a non-trivial element of their wild kernel. (English summary) **98d:19003**

Osipov, D. V. Adelic constructions of direct images of differentials and symbols. (Russian. Russian summary) **98k:11093**

19C99 None of the above, but in this section

Kiralis, Jeff A non-abelian K-theory and pseudo-isotopies of 3-manifolds. (English summary) **98f:19002**

Items with secondary classifications in 19C99

Kim, Ki Hang (*with* Roush, F. W.; Wagoner, J. B.) Inert actions on periodic points. (English summary) **98i:54021**

Roush, F. W. *see* **Kim, Ki Hang; et al.**, **98i:54021**

Soriano, Florence Erratum: "Cyclic extensions of degree l of l-regular number fields" [J. Théor. Nombres Bordeaux **6** (1994), no. 2, 407–420; MR 96j:11160]. (French) **98a:11158**

Vazzana, A. On the 2-primary part of K_2 of rings of integers in certain quadratic number fields. **98d:11147**

— Elementary abelian 2-primary parts of $K_2\mathcal{O}$ and related graphs in certain quadratic number fields. **98g:11132**

Wagoner, J. B. *see* **Kim, Ki Hang; et al., 98i:54021**

19Dxx Higher algebraic K-theory

19D06 Q- and plus-constructions

Items with secondary classifications in 19D06

Gilbert, N. D. Cockcroft complexes and the plus construction. (English summary) **98i:57004**

McCarthy, Randy A chain complex for the spectrum homology of the algebraic K-theory of an exact category. (English summary) **98k:19004**

19D10 Algebraic K-theory of spaces

Carlsson, Gunnar (*with* Pedersen, Erik Kjær; Vogell, Wolrad) Continuously controlled algebraic K-theory of spaces and the Novikov conjecture. **98k:19001**

Pedersen, Erik Kjær *see* **Carlsson, Gunnar; et al., 98k:19001**

Vogell, Wolrad *see* **Carlsson, Gunnar; et al., 98k:19001**

Items with secondary classifications in 19D10

Cárdenas Escudero, Manuel Enrique (*with* Pedersen, Erik Kjær) On the Karoubi filtration of a category. (English summary) **98g:18012**

Hens, Thorsten Stability of tâtonnement processes of short period equilibria with rational expectations. (English summary) **98a:90028**

Madsen, Ib Algebraic K-theory and traces. **98g:19004**

McClure, James E. (*with* Schwänzl, R.; Vogt, Rainer M.) $THH(R) \cong R \otimes S^1$ for E_∞ ring spectra. (English summary) **98k:55010**

Pedersen, Erik Kjær *see* **Cárdenas Escudero, Manuel Enrique, 98g:18012**

Schwänzl, R. *see* **McClure, James E.; et al., 98k:55010**

Vogt, Rainer M. *see* **McClure, James E.; et al., 98k:55010**

19D23 Symmetric monoidal categories [see also 18D10]

Items with secondary classifications in 19D23

Cockett, J. R. B. (*with* Seely, R. A. G.) Proof theory for full intuitionistic linear logic, bilinear logic, and MIX categories. (English summary) **98j:03077**

Seely, R. A. G. *see* **Cockett, J. R. B., 98j:03077**

19D25 Karoubi-Villamayor-Gersten K-theory

Items with secondary classifications in 19D25

Karoubi, Max Sur la K-théorie multiplicative. (English summary) [Multiplicative K-theory] **98j:19003**

19D35 Negative K-theory, NK and Nil

Items with secondary classifications in 19D35

Madsen, Ib Algebraic K-theory and traces. **98g:19004**

Prassidis, Stratos A split exact sequence of equivariant K-groups of virtually nilpotent groups. (English summary) **98j:57038**

Rosenberg, Jonathan The algebraic K-theory of operator algebras. (English summary) **98h:19007**

Upadhyay, Shashidhar Controlled algebraic K-theory of integral group ring of $SL(3, \mathbf{Z})$. (English summary) **98i:19003**

19D45 Higher symbols, Milnor K-theory

Brylinski, Jean-Luc (*with* McLaughlin, D. A.) Characteristic classes and multidimensional reciprocity laws. **98g:19001**

McLaughlin, D. A. *see* **Brylinski, Jean-Luc, 98g:19001**

Items with secondary classifications in 19D45

Bell, Robert A. On properties of the n-dimensional norm residue symbol in higher local class field theory. (English summary) **98d:11149**

— On the properties of the Vostokov and Parshin pairing in higher local class field theory. (English summary) **98d:11150**

Brylinski, Jean-Luc (*with* McLaughlin, D. A.) Multidimensional reciprocity laws. **98b:11072**

McLaughlin, D. A. *see* **Brylinski, Jean-Luc, 98b:11072**

Rost, Markus Chow groups with coefficients. (English summary) **98a:14006**

Zhukov, I. B. Milnor and topological K-groups of higher-dimensional complete fields. (Russian) **98m:11131**

19D50 Computations of higher K-theory of rings [see also 13D15, 16E20]

Banaszak, Grzegorz (*with* Zelewski, Piotr) On the map between K-groups of Henselization and completion of some local rings. (English summary) **98g:19002**

Hesselholt, Lars On the p-typical curves in Quillen's K-theory. **98a:19001**

Köck, Bernhard On Adams operations on the higher K-theory of group rings. (English summary) **98j:19002**

Lindenstrauss, Ayelet The topological Hochschild homology of the Gaussian integers. (English summary) **98b:19002**

Tsalidis, Stavros On the topological cyclic homology of the integers. (English summary) **98b:19003**

Weibel, Charles The 2-torsion in the K-theory of the integers. (English and French summaries) **98h:19001**

Zelewski, Piotr *see* **Banaszak, Grzegorz, 98g:19002**

Items with secondary classifications in 19D50

Arlettaz, Dominique The exponent of the homotopy groups of Moore spectra and the stable Hurewicz homomorphism. (English summary) **98a:55007**

Dwyer, W. G. (*with* Mitchell, Stephen A.) On the K-theory spectrum of a smooth curve over a finite field. **98g:19006**

Hesselholt, Lars (*with* Madsen, Ib) Cyclic polytopes and the K-theory of truncated polynomial algebras. **98k:19002**

Knudson, Kevin P. The homology of special linear groups over polynomial rings. (English and French summaries) **98c:20087**

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19E20 Relations with cohomology theories [see also 14Fxx]

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19F05 Generalized class field theory [see also 11G45]

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19F27 Étale cohomology, higher regulators, zeta and L-functions [see also 11G40, 11R42, 11S40, 14F20, 14G10]

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19G38 Hermitian K-theory, relations with K-theory of rings

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19J05 Finiteness and other obstructions in K_0

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19J10 Whitehead (and related) torsion

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19J25 Surgery obstructions [see also 57R67]

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19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]

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Connes, Alain Noncommutative geometry. (Finnish) (*see* **98d:00001**)

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19K35 Kasparov theory (KK-theory) [see also 58G12]

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Cerri, Cristina Non-commutative deformations of $C(\mathbf{T}^2)$ and K-theory. (English summary) **98j:46082**

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Yu, Guoliang K-theoretic indices of Dirac type operators on complete manifolds and the Roe algebra. (English summary) **98e:19002**

19K56 Index theory [see also 58G12]

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Bettaieb, Hela (*with* Valette, Alain) Sur le groupe K_1 des C^*-algèbres réduites de groupes discrets. (English and French summaries) [On K_1 of reduced C^*-algebras of discrete groups] **98b:46090**
Chan, Shing-Wai Periodic cyclic cohomology Chern character for pseudomanifolds with one singular stratum. (English summary) **98g:58169**
Chern, Shikai Dirac induction for unimodular Lie groups. (English summary) **98d:22007**
— (*with* Hu, Xiaodong) Equivariant Chern character for the invariant Dirac operator. **98j:58111**
Connes, Alain Brisure de symétrie spontanée et géométrie du point de vue spectral. (French summary) [Spontaneous symmetry breaking and geometry from the spectral point of view] **98h:58011a**
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Douglas, Ronald G. (*with* Kaminker, Jerome) Induced cyclic cocycles and higher eta invariants. (English summary) **98h:58186**
Elliott, George A. (*with* Gong, Guihua) On the classification of C^*-algebras of real rank zero. II. (English summary) **98j:46055**
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Guentner, Erik (*with* Higson, Nigel) A note on Toeplitz operators. (English summary) **98k:47044**
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19L20 J-homomorphism, Adams operations [see also 55Q50]

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19L41 Connective K-theory, cobordism [see also 55N22]

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20–XX Group theory and generalizations

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Weyl, Hermann ★ The classical groups. (English summary) **98k:01049**
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Collected Works:
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Celler, Frank (*with* Leedham-Green, C. R.) Calculating the order of an invertible matrix. (English summary) **98g:20001**
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20–06 Proceedings, conferences, collections, etc.

(Adem, Alejandro) *see* **Group representations: cohomology, group actions and topology, 98h:20002**
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(Cannon, John J.) *see* **Computational algebra and number theory, 98f:68006**
(Florek, Wojciech) *see* **Symmetry and structural properties of condensed matter, 98k:82003**
(Gomes, Gracinda M. S.) *see* **Semigroups, automata and languages, 98f:00029**
(Holt, Derek F.) *see* **Computational algebra and number theory, 98f:68006**
(Lulek, T.) *see* **Symmetry and structural properties of condensed matter, 98k:82003**
(Silva, Pedro V.) *see* **Semigroups, automata and languages, 98f:00029**
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Porto ★ Semigroups, automata and languages. **98f:00029**
School:
Symmetry and Structural Properties of Condensed Matter ★ Symmetry and structural properties of condensed matter. **98k:82003**
Theoretical Physics ★ Symmetry and structural properties of condensed matter. **98k:82003**
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20Axx Foundations

20A05 Axiomatics and elementary properties

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20A10 Metamathematical considerations {For word problems, see 20F10.}

Items with secondary classifications in 20A10

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20A15 Applications of logic to group theory

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Kunen, Kenneth The semantics of answer literals. (English summary) **98g:03036**
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20Bxx Permutation groups

20B05 General theory for finite groups

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Asar, Ali Osman Barely transitive locally nilpotent p-groups. **98a:20032**
Dixon, John D. (*with* Mortimer, Brian) ★ Permutation groups. (English summary) **98m:20003**
Hartley, Brian (*with* Kuzucuoğlu, Mahmut) Non-simplicity of locally finite barely transitive groups. (English summary) **98h:20068**
Kuzucuoğlu, Mahmut *see* **Hartley, Brian, 98h:20068**
Mortimer, Brian *see* **Dixon, John D., 98m:20003**
Praeger, Cheryl E. Restricted movement for intransitive group actions. (English summary) **98g:20007**
— The separation theorem for group actions. **98h:20004**
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Zakhryamin, E. A. Conditions for generalized solvability and generalized nilpotency in the class of finitary linear groups. (Russian) **98f:20019**

20B10 Characterization theorems

Li, Cai Heng The primitive permutation groups of certain degrees. (English summary) **98c:20005**

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Abhyankar, Shreeram S. (*with* Loomis, Paul A.) Once more nice equations for nice groups. (English summary) **98k:12003**
Bender, Helmut Endliche Fastkörper und Zassenhausgruppen. [Finite nearfields and Zassenhaus groups] **98c:20001**
Herrmann, Christian On automorphism groups of Arguesian lattices. (English summary) **98k:06010**
Loomis, Paul A. *see* **Abhyankar, Shreeram S., 98k:12003**

20B15 Primitive groups

Fleischmann, Peter Primitive p-Frobenius groups and p-intersection subgroups of finite groups. (English summary) **98b:20003**
— (*with* Lempken, W.; Tiep, Pham Huu) The primitive p-Frobenius groups. (English summary) **98j:20002**
Kochetkov, Yu. Yu. Permutation groups generated by a (2, 2)-cycle and an n-cycle. (Russian) **98i:20002**
Leemans, Dimitri Two nearly isomorphic groups. (English summary) **98k:20005**
Lempken, W. *see* **Fleischmann, Peter; et al., 98j:20002**

Seress, Ákos Primitive groups with no regular orbits on the set of subsets. (English summary) **98g:20008**
Tiep, Pham Huu *see* **Fleischmann, Peter; et al., 98j:20002**
Wang, Jie[3] Primitive permutation groups with a solvable subconstituent of degree 5. (English and Chinese summaries) **98j:20003**

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Bourgain, Jean (*with* Kalai, Gil) Influences of variables and threshold intervals under group symmetries. **98j:20005**
Kalai, Gil *see* **Bourgain, Jean, 98j:20005**
Vasil'ev, A. V. Minimal permutation representations of finite simple exceptional groups of types G_2 and F_4. (Russian. Russian summary) **98d:20055**
— Minimal permutation representations of finite simple exceptional groups of types E_6, E_7 and E_8. (Russian. Russian summary) **98m:20055**

20B20 Multiply transitive finite groups

Quattrocchi, Pasquale (*with* Rinaldi, Gloria) Sharply four-transitive permutation sets and the Mathieu group M_{11}. (Italian. English summary) **98h:20007**
Rinaldi, Gloria (*with* Spaggiari, Simonetta) Extension of multiply transitive permutation sets. (English summary) **98g:20009**
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Spaggiari, Simonetta *see* **Rinaldi, Gloria, 98g:20009**

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Abdukhalikov, K. S. Modular permutation representations of PSL(n, p) and invariant lattices. (Russian. Russian summary) **98k:20016**
Fiori, Carla *see* **Quattrocchi, Pasquale; et al., 98f:51008**
Guralnick, Robert M. (*with* Wan, Daqing) Bounds for fixed point free elements in a transitive group and applications to curves over finite fields. (English summary) **98j:12002**
Il'inykh, A. P. Finite neofields and 2-transitive groups. (Russian. Russian summary) **98m:12004**
Quattrocchi, Pasquale (*with* Fiori, Carla; Rinaldi, Gloria) Permutations and geometries. (Italian) **98f:51008**
Rinaldi, Gloria *see* **Quattrocchi, Pasquale; et al., 98f:51008**
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20B22 Multiply transitive infinite groups

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Chen, Yi[2] Transitivity theorems in Lie geometry. (English summary) **98a:51005**
McCleary, Stephen H. Lattice-ordered permutation groups: the structure theory. **98m:06022**
Rinaldi, Gloria (*with* Spaggiari, Simonetta) Extension of multiply transitive permutation sets. (English summary) **98g:20009**
Spaggiari, Simonetta *see* **Rinaldi, Gloria, 98g:20009**

20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [see also 05Bxx, 12F10, 20G40, 20H30, 51–XX]

Abdukhalikov, K. S. Invariant Hermitian lattices in the Steinberg module and their isometry groups. (English summary) **98e:20005**
Chen, Jinzhi Automorphism groups of Cayley digraphs. (English and Chinese summaries)
Cigić, V. *see* **Golemac, A., 98k:20006**
Conway, John H. M_{13}. (English summary) **98i:20003**
Golemac, A. (*with* Cigić, V.) On the group A_5 as an automorphism group on triplanes of order 16. (English summary) **98k:20006**
Kaplan, Gil On groups admitting a disconnected common divisor graph. (English summary) **98g:20010**
Laue, Reinhard Construction of groups and the constructive approach to group actions. (English summary) **98m:20006**
Zieschang, Paul-Hermann Point regular normal subgroups of flag transitive automorphism groups of 2-designs. **98m:20007**

Items with secondary classifications in 20B25

Adrianov, Nikolai Mikhailovich Regular maps with the automorphism group PSL$_2(q)$. (Russian) **98f:05075**
Baumann, Ulrike Representing groups by colourings of graphs. (English summary) **98k:05079**
Betten, Anton (*with* Kerber, Adalbert; Kohnert, Axel; Laue, Reinhard; Wassermann, Alfred) The discovery of simple 7-designs with automorphism group PΓL(2, 32). (English summary) **98f:05021**
Busarkina, I. V. *see* **Podufalov, N. D., 98b:51012**
Chen, Yi[2] Transitivity theorems in Lie geometry. (English summary) **98a:51005**
Dejter, Italo J. (*with* Hevia, Héctor; Serra, Oriol) Hidden Cayley graph structures. (English summary) **98m:05082**
Held, Dieter (*with* Pavčević, Mario-Osvin) Symmetric (79, 27, 9)-designs admitting a faithful action of a Frobenius group of order 39. (English summary) **98a:05040**
Hevia, Héctor *see* **Dejter, Italo J.; et al., 98m:05082**
Ito, Noboru (*with* Okamoto, Takeo) On Hadamard groups of order 72. (English summary) **98c:05029**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) The doubly transitive flocks of quadratic cones. (English summary) **98k:51017**
Johnson, Norman Lloyd[1] *see* **Jha, Vikram, 98k:51017**
Kerber, Adalbert *see* **Betten, Anton; et al., 98f:05021**
Kohnert, Axel *see* **Betten, Anton; et al., 98f:05021**
Laue, Reinhard *see* **Betten, Anton; et al., 98f:05021**
Leedham-Green, C. R. (*with* O'Brien, E. A.) Recognising tensor products of matrix groups. (English summary) **98h:20018**
Li, Cai Heng *see* **Praeger, Cheryl E.; et al., 98h:05093**
Li, Hui Ling *see* **Liu, Wei Jun, 98c:05023**
Liu, Wei Jun (*with* Li, Hui Ling) A generalization of the Camina-Gagen theorem. II. (Chinese. English and Chinese summaries) **98c:05023**
López, Amparo Beauty and mathematics: concerning the word "symmetry". (Catalan. Catalan summary) **98b:00005**
Marušič, Dragan (*with* Scapellato, Raffaele) Classification of vertex-transitive pq-digraphs. (Italian summary) **98a:05078**
— (*with* Xu, Ming-Yao) A $\frac{1}{2}$-transitive graph of valency 4 with a nonsolvable group of automorphisms. (English summary) **98c:05079**
Mathon, Rudolf (*with* Praeger, Cheryl E.) On block-transitive designs with affine automorphism group. (English summary) **98a:05021**
Mnukhin, V. B. Some relations for the lengths of orbits on k-sets and $(k-1)$-sets. (English summary) **98g:20006**
Muzychuk, Mikhail E. On Ádám's conjecture for circulant graphs. (English summary) **98h:05141a**
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Niemeyer, Alice C. *see* **Praeger, Cheryl E.; et al., 98h:05093**
O'Brien, E. A. *see* **Leedham-Green, C. R., 98h:20018**
Okamoto, Takeo *see* **Ito, Noboru, 98c:05029**
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Podufalov, N. D. (*with* Busarkina, I. V.) The autotopism group of a p-primitive semifield plane of order q^4. (Russian. Russian summary) **98b:51012**
Pott, Alexander ★ Finite geometry and character theory. **98j:05032**
Praeger, Cheryl E. (*with* Li, Cai Heng; Niemeyer, Alice C.) Finite transitive permutation groups and finite vertex-transitive graphs. (English summary) **98h:05093**
— *see also* **Mathon, Rudolf, 98a:05021**
Scapellato, Raffaele *see* **Marušič, Dragan, 98a:05078**
Seress, Ákos On vertex-transitive, non-Cayley graphs of order pqr. (English summary) **98i:05095**
Serra, Oriol *see* **Dejter, Italo J.; et al., 98m:05082**
Simonyan, A. Z. Galois theory for Dedekind lattices. II. (Russian. English and Russian summaries) **98a:06008**
Strazdins, I. Universal affine classification of Boolean functions. (English summary) **98c:06019**
Wassermann, Alfred *see* **Betten, Anton; et al., 98f:05021**
Xu, Ming-Yao Automorphism groups and isomorphisms of Cayley digraphs. (English summary) **98i:05096**
— *see also* **Marušič, Dragan, 98c:05079**

20B27 Infinite automorphism groups [see also 12F10]

Adeleke, S. A. (*with* Neumann, Peter M.) Relations related to betweenness: their structure and automorphisms. (English summary) **98h:20008**
Neumann, Peter M. *see* **Adeleke, S. A., 98h:20008**
Tararin, V. M. On associated right orders in groups of automorphisms of linearly ordered sets. (Russian. Russian summary) **98c:20006**
Truss, J. K. Conjugate homeomorphisms of the rational world. (English summary) **98b:20004**

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Ball, Richard N. (*with* McCleary, Stephen H.) Tyings in lattice-ordered permutation groups. (English summary) **98a:06025**
— (*with* McCleary, Stephen H.) The closure of a lattice-ordered permutation group. (English summary) **98m:06020**
Bamber, Nicholas *see* **Kossak, Roman, 98m:03073**
Evans, David M. An infinite highly arc-transitive digraph. **98c:05077**
Kaplan, Gil On groups admitting a disconnected common divisor graph. (English summary) **98g:20010**
Kossak, Roman (*with* Bamber, Nicholas) On two questions concerning the automorphism groups of countable recursively saturated models of PA. (English summary) **98m:03073**
Lascar, Daniel Recovering the action of an automorphism group. (English summary) **98a:03050**
McCleary, Stephen H. *see* **Ball, Richard N., 98a:06025** *and* **98m:06020**
McLeish, S. J. The forth part of the back and forth map in countable homogeneous structures. (English summary) **98m:03068**
Möller, Rögnvaldur G. Topological groups, automorphisms of infinite graphs and a theorem of Trofimov. (English summary) **98m:05087**
Morozov, A. S. Endomorphisms of the group of all recursive permutations. (Russian. Russian summary) **98i:03058**
Seifter, Norbert (*with* Trofimov, Vladimir I.) Automorphism groups of graphs with quadratic growth. (English summary) **98m:05088**
Sibley, Thomas Q. Coset representation of homogeneous geometrical structures. **98k:51029**
Trofimov, Vladimir I. *see* **Seifter, Norbert, 98m:05088**

20B30 Symmetric groups

Evans, David M. Computation of first cohomology groups of finite covers. (English summary) **98d:20001**
Gray, Darren G. D. The structure of some permutation modules for the symmetric group of infinite degree. (English summary) **98e:20006**
Katriel, Jacob Class-sum products in the symmetric group: minimally-connected reduced class coefficients. (English summary) (*see* **98h:00025**)
Lascoux, Alain Potentiel Yin sur le groupe symétrique. [Yin potential on the symmetric group] **98e:20007**

Łuczak, Tomasz (*with* Pyber, László) On random generation of the symmetric group [MR 95b:20004]. (English summary) (*see* **98d:00027**)
Prince, Alan R. Oval configurations of involutions in symmetric groups. (English summary) (*see* **98e:00015**)
Pyber, László *see* **Łuczak, Tomasz**, (**98d:00027**)
Truss, J. K. On recovering structures from quotients of their automorphism groups. **98m:20008**
Turull, Alexandre Cyclic by prime fixed point free action. (English summary) **98j:20004**

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Berger, Clemens Combinatorial models for real configuration spaces and E_n-operads. (English summary) **98j:18014**
Bisson, Terrence P. (*with* Joyal, André) Q-rings and the homology of the symmetric groups. (English summary) **98e:55021**
Block, Henry W. (*with* Qian, Shi Xian; Sampson, Allan R.) Isotonic regression on permutations. (English summary) **98j:62028**
Conder, Marston (*with* Morton, Margaret; Praeger, Cheryl E.) Partition graphs for finite symmetric groups. (English summary) **98g:05069**
Hammas, A. M. Symmetric generating set of the groups A_{2n+1} and S_{2n+1} using S_n and an element of order two. (English summary) **98j:20035**
Joyal, André *see* **Bisson, Terrence P.**, **98e:55021**
Keedwell, A. D. The finite alternating groups are C-groups: an elementary proof. (English summary) **98d:20019**
Morton, Margaret *see* **Conder, Marston; et al.**, **98g:05069**
Mustaq, Q. (*with* Zafar, N. A.) Alternating and symmetric groups as quotients of $G^{5,6,36}$. (English summary) **98g:20050**
Peterson, Brian (*with* Valdés, Linda) Derangements in Sylow subgroups of symmetric groups. (English summary)
Praeger, Cheryl E. *see* **Conder, Marston; et al.**, **98g:05069**
Qian, Shi Xian *see* **Block, Henry W.; et al.**, **98j:62028**
Roichman, Yuval Expansion properties of Cayley graphs of the alternating groups. (English summary) **98g:05070**
Sampson, Allan R. *see* **Block, Henry W.; et al.**, **98j:62028**
Shelah, Saharon (*with* Thomas, Simon R.) The cofinality spectrum of the infinite symmetric group. (English summary) **98k:03106**
(Stedman, Fabian) *see* **White, Arthur T.**, **98c:01019**
Strehl, Volker Minimal transitive products of transpositions—the reconstruction of a proof of A. Hurwitz. (English summary) **98h:05017**
Thomas, Simon R. *see* **Shelah, Saharon**, **98k:03106**
Valdés, Linda *see* **Peterson, Brian**
White, Arthur T. Fabian Stedman: the first group theorist? **98c:01019**
Zafar, N. A. *see* **Mustaq, Q.**, **98g:20050**

20B35 Subgroups of symmetric groups

Balmaceda, Jose Maria P. Multiplicity-free actions of the alternating groups. (English summary) **98d:20002**
Belyaev, V. V. (*with* Kuzucuoğlu, Mahmut) Barely transitive and Heineken Mohamed groups. **98e:20008**
Bourgain, Jean (*with* Kalai, Gil) Influences of variables and threshold intervals under group symmetries. **98j:20005**
Cameron, Peter J. (*with* Kantor, William M.) Random permutations: some group-theoretic aspects [MR 95b:20006]. (English summary) (*see* **98d:00027**)
He, Qing[3] The stabilizers of Ulam ideals. (Chinese. English and Chinese summaries) **98g:20011**
Kalai, Gil *see* **Bourgain, Jean**, **98j:20005**
Kantor, William M. *see* **Cameron, Peter J.**, (**98d:00027**)
Kuzucuoğlu, Mahmut *see* **Belyaev, V. V.**, **98e:20008**
Liebeck, Martin W. (*with* Shalev, Aner) Maximal subgroups of symmetric groups. (English summary) **98b:20005**
Shalev, Aner *see* **Liebeck, Martin W.**, **98b:20005**

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Mustaq, Q. (*with* Zafar, N. A.) Alternating and symmetric groups as quotients of $G^{5,6,36}$. (English summary) **98g:20050**
Pyber, László (*with* Shalev, Aner) Groups with super-exponential subgroup growth. (English summary) **98g:20044**
Shalev, Aner *see* **Pyber, László**, **98g:20044**
Zafar, N. A. *see* **Mustaq, Q.**, **98g:20050**
Zhuravlev, V. M. Polynilpotent components in the free Lie algebra and the wreath products of the cyclic groups. **98j:17003**

20B40 Computational methods

Cannon, John J. (*with* Holt, Derek F.) Computing chief series, composition series and socles in large permutation groups. (English summary) **98m:20009**
— (*with* Cox, Bruce C.; Holt, Derek F.) Computing Sylow subgroups in permutation groups. (English summary) **98m:20010**
Cox, Bruce C. *see* **Cannon, John J.; et al.**, **98m:20010**
Holt, Derek F. *see* **Cannon, John J.**, **98m:20009** *and* **98m:20010**
Leon, Jeffrey S. Partitions, refinements, and permutation group computation. (English summary) **98e:20009**
Morje, Prabhav On nearly linear time algorithms for Sylow subgroups of small-base permutation groups. (English summary) **98d:20003**
Tselman, Michael Constructing permutation representations for matrix groups in parallel environments. (English summary) **98g:20012**

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Gollan, Holger W. (*with* Michler, Gerhard O.) Construction of a 45,694-dimensional simple module of Lyons' sporadic group over GF(2). (English summary) **98e:20018**
Holt, Derek F. Representing quotients of permutation groups. **98j:20001**
Michler, Gerhard O. *see* **Gollan, Holger W.**, **98e:20018**

20B99 None of the above, but in this section

Makarov, V. V. The automaton permutation group AS_n generated by elements of infinite order. (Russian. Russian summary)

Items with secondary classifications in 20B99

Chen, Guo Ping *see* **Zheng, Zhou Shun; et al.**
Feng, Hong (*with* Sun, Qiang) Association schemes of free submodules over $\mathbf{Z}/(p^t)$. (English and Chinese summaries)
Li, Cai Heng Isomorphisms of finite Cayley graphs. **98i:05094**
Li, Qi Sheng[1] *see* **Zheng, Zhou Shun; et al.**
Morozov, A. S. Turing reducibility as algebraic embeddability. (Russian. Russian summary) **98g:03106**
Sun, Qiang *see* **Feng, Hong**
Zheng, Zhou Shun (*with* Li, Qi Sheng[1]; Chen, Guo Ping) A property of Boolean algebras over infinite permutation groups. (Chinese. English and Chinese summaries)

20Cxx Representation theory of groups [see also 19A22 (for representation rings and Burnside rings)]

Items with secondary classifications in 20Cxx

Weyl, Hermann ★ The classical groups. (English summary) **98k:01049**

20C05 Group rings of finite groups and their modules [see also 16S34]

Blanchard, Peter Floodstrand Exceptional group ring automorphisms for some metabelian groups. I, II. (English summary) **98k:20007**
Coelho, Sônia P. (*with* Polcino Milies, César) Automorphisms of group algebras of dihedral groups. (Italian summary) **98c:20007**
Fan, Yun Relative local control and the block source algebras. (English summary) **98i:20004**
Fiedler, Bernd A use of ideal decomposition in the computer algebra of tensor expressions. (English summary) **98g:20013**
Kimmerle, Wolfgang On the characterization of simple groups by modular group algebras. **98k:20008**
Laradji, Abdellatif A characterization of p-radical groups. **98a:20002**
Leung, Ka Hin (*with* Man, Shing Hing) On Schur rings over cyclic groups. II. (English summary) **98h:20009**
Man, Shing Hing *see* **Leung, Ka Hin**, **98h:20009**
Polcino Milies, César *see* **Coelho, Sônia P.**, **98c:20007**
Robinson, Geoffrey R. Further reductions for the $k(GV)$-problem. **98d:20004**
Sawada, Hideki A note on associative triple systems of Hecke type of characteristic 0. (English summary) **98c:20008**
Wheeler, Wayne W. Generic module theory. (English summary) **98a:20003**
Wu, Jun A partial ordering of $\mathbf{C}S_m$ defined by the generalized matrix functions. (English summary) **98a:20004**

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Burns, David J. (*with* Chinburg, Ted) Adams operations and integral Hermitian-Galois representations. **98g:11126**
Chinburg, Ted *see* **Burns, David J.**, **98g:11126**
Fleischmann, Peter (*with* Lempken, W.) On generators of modular invariant rings of finite groups. (English summary) **98g:13005**
Fukushima, Hiroshi On p-radical groups G and the nilpotency indices of $J(kG)$. II. **98h:16036a**
— *see also* **Errata: "On p-radical groups G and the nilpotency indices of $J(kG)$. II"**, **98h:16036b**
Gangopadhyay, Sugata *see* **Sharma, Rajendra Kumar; et al.**, **98e:16031**
Giambruno, Antonio On permutations of class sums of alternating groups. (English summary) **98c:20030**
Hida, Akihiko Some remarks on the Loewy series of projective modules for p-solvable groups. **98m:16032**
Hoechsmann, Klaus On the arithmetic of commutative group rings. **98h:16049**
Jespers, Eric (*with* Leal, Guilherme) Free products of abelian groups in the unit group of integral group rings. (English summary) **98j:16019**
Jones, Alfredo R. On the exponent of lattices over group rings. **98d:20005**
König, Steffen (*with* Zimmermann, Alexander) Tilting selfinjective algebras and Gorenstein orders. **98k:16017**
Leal, Guilherme *see* **Jespers, Eric**, **98j:16019**
Lee, Gregory T. (*with* Sehgal, Sudarshan K.) Generators of subgroups of finite index in $\mathrm{GL}_m(\mathbf{Z}G)$. (English summary) **98m:20061**
Lempken, W. *see* **Fleischmann, Peter**, **98g:13005**
Marciniak, Zbigniew S. Units in group rings. (Polish)
Rickard, Jeremy Idempotent modules in the stable category. (English summary) **98d:20058**
Sehgal, Sudarshan K. *see* **Lee, Gregory T.**, **98m:20061**
Sharma, Rajendra Kumar (*with* Gangopadhyay, Sugata; Vetrivel, V.) On units in $\mathbf{Z}S_3$. (English summary) **98e:16031**
Vetrivel, V. *see* **Sharma, Rajendra Kumar; et al.**, **98e:16031**
Zimmermann, Alexander *see* **König, Steffen**, **98k:16017**

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"On p-radical groups G and the nilpotency indices of $J(kG)$. II" Correction to: "On p-radical groups G and the nilpotency indices of $J(kG)$. II" [Osaka J. Math. **33** (1996),

Errata: (*cont'd.*)
no. 3, 637–648; MR 98h:16036a] by H. Fukushima. **98h:16036b**

20C07 Group rings of infinite groups and their modules [see also 16S34]

Brookes, C. J. B. (*with* Roseblade, J. E.; Wilson, John S.) Exterior powers of modules for group rings of polycyclic groups. **98k:20009**
Duan, Ze Yong The decomposition of Noetherian modules over hyperfinite groups. (English summary) **98g:20014**
Hartl, Manfred A universal coefficient decomposition for subgroups induced by submodules of group algebras. (English summary) **98i:20005**
Kimmerle, Wolfgang On automorphisms of $\mathbf{Z}G$ and the Zassenhaus conjectures. (*see* **96m:16001**)
Roggenkamp, Klaus W. On the Zassenhaus conjecture and Čech cohomology. (English summary) **98g:20015**
Roseblade, J. E. *see* **Brookes, C. J. B.; et al., 98k:20009**
Sahai, Meena (*with* Srivastava, J. B.) A note on Lie centrally metabelian group algebras. (English summary) **98c:20009**
Srivastava, J. B. *see* **Sahai, Meena, 98c:20009**
Wilson, John S. *see* **Brookes, C. J. B.; et al., 98k:20009**

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Bovdi, A. A. (*with* Patay, Zoltán) On the central units of a modular group algebra. (English summary) **98h:16048**
Coelho, Sônia P. (*with* Polcino Milies, César) Some remarks on central idempotents in group rings. (English summary) **98i:16023**
Danchev, Peter V. Normed unit groups and direct factor problem for commutative modular group algebras. (English summary) **98m:16038**
— Torsion completeness of Sylow p-groups in modular group rings. **98b:16029**
Eckmann, Beno Projective and Hilbert modules over group algebras, and finitely dominated spaces. **98h:57046a**
— Addendum to: "Projective and Hilbert modules over group algebras, and finitely dominated spaces". **98h:57046b**
Kawamoto, Naoki Derivations of group algebras of the infinite dihedral group. (English summary) (*see* **98e:20003**)
Kurdachenko, Leonid A. Artinian modules over groups of finite rank and the weak minimal condition for normal subgroups. (English summary) **98h:20041**
Passman, D. S. The semiprimitivity problem for group algebras of locally finite groups. (English summary) **98e:16025**
— The semiprimitivity problem for twisted group algebras of locally finite groups. (English summary) **98c:16034b**
— The Jacobson radical of group rings of locally finite groups. (English summary) **98c:16034a**
Patay, Zoltán *see* **Bovdi, A. A., 98h:16048**
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Sysak, Yaroslav P. Some examples of factorized groups and their relation to ring theory. **98i:20029**
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20Dxx Abstract finite groups

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Giambruno, Antonio On permutations of class sums of alternating groups. (English summary) **98c:20030**
Gordeev, N. L. *see* **Ellers, Erich W., 98k:20022**
Husaine, Syed Muhammad On a characterization of $\widehat{F_4(2)}$ the Ree-extension of the Chevalley group $F_4(2)$. II, III. (English summary) **98e:20020**
Keedwell, A. D. The finite alternating groups are C-groups: an elementary proof. (English summary) **98d:20019**
Kitazume, Masaaki (*with* Miyamoto, Masahiko) $M_{24} \sim$ **M**. I, II, III. (Japanese) (*see* **98e:00013**)
Ku, Chao A new proof of the Solomon-Tits theorem. (English summary) **98k:20023**
Li, Rui Hu A family of maximal subgroups of the fourth class in the Lie type groups $B_n(F)$. (Chinese. English and Chinese summaries)
Li, Xianchong (*with* You, Taijie) On the structure of inner 7-closed simple groups. (English and Chinese summaries) **98g:20029**
Miyamoto, Masahiko *see* **Kitazume, Masaaki, (98e:00013)**
Nuzhin, Ya. N. Generators of simple groups and their applications. (English summary) **98e:20021**

— Generating triples of involutions of Lie-type groups over a finite field of odd characteristic. I. (Russian. Russian summary) **98g:20030**
— Generating triples of involutions of Lie-type groups over a finite field of odd characteristic. II. (Russian. Russian summary) **98m:20021**
Ostrik, V. V. On a conjecture of Thompson. (Russian. Russian summary) **98j:20012**
Sawabe, Masato A combinatorial approach to the conjugacy classes of Mathieu simple groups. (Japanese) (*see* **98e:00013**)
Saxl, Jan (*with* Wilson, John S.) A note on powers in simple groups. **98e:20022**
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Abhyankar, Shreeram S. Hilbert's thirteenth problem. (English and French summaries) **98i:12003**
— Polynomial expansion. (English summary) **98g:12003**
Balcerzyk, Stanisław Representation ring of the sequence of alternating groups. **98e:20017**
Bardoe, Matthew Kirby The universal embedding for the $U_4(3)$ involution geometry. (English summary) **98e:51015**
— The universal embedding for the involution geometry of the Suzuki sporadic simple group. (English summary) **98e:51016**
— Embeddings, geometries and representations. connections and computations. (English summary) **98k:51025**
Brandl, Rolf (*with* Fedri, Valeria; Serena, Luigi) On self-centralizing Sylow subgroups of order four. **98b:20022**
— (*with* Fedri, Valeria; Serena, Luigi) Groups with the same Cartan matrix as $\mathrm{PSL}(2, r)$. (Italian summary) **98k:20083**
Dye, R. H. Double-sixers of hexagons, A_6 and $\mathrm{PSL}_3(K)$. **98a:14049**
Fedri, Valeria *see* **Brandl, Rolf; et al., 98b:20022** *and* **98k:20083**
Fleischmann, Peter (*with* Janiszczak, I.; Knörr, R.) The number of regular semisimple classes of special linear and unitary groups. **98m:20063**
Janiszczak, I. *see* **Fleischmann, Peter; et al., 98m:20063**
Kimmerle, Wolfgang On the characterization of simple groups by modular group algebras. **98k:20008**
Knörr, R. *see* **Fleischmann, Peter; et al., 98m:20063**
Norton, S. P. Non-Monstrous Moonshine. (English summary) **98g:11049**
Parker, Christopher (*with* Rowley, P. J.) Extremal subgroups in Chevalley groups. **98a:20043**
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Smith, Stephen D. (*with* Yoshiara, Satoshi) Some homotopy equivalences for sporadic geometries. (English summary) **98e:20024**
Vasil'ev, A. V. Minimal permutation representations of finite simple exceptional groups of types G_2 and F_4. (Russian. Russian summary) **98d:20055**
— Minimal permutation representations of finite simple exceptional groups of types E_6, E_7 and E_8. (Russian. Russian summary) **98m:20055**
Wiedorn, Corinna A certain uniqueness result for the tilde geometry for $F_4(2)$. **98j:51020**
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Aschbacher, Michael ★ 3-transposition groups. (English summary) **98h:20024**
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Chen, Guiyun A new characterization of Suzuki-Ree group. (English summary) **98j:20013**
Ganief, Shahiem (*with* Moori, Jamshid) 2-generations of the smallest Fischer group Fi_{22}. (English summary) **98h:20025**
Jansen, Christoph (*with* Wilson, Robert A.) Two new constructions of the O'Nan group. (English summary) **98m:20022**
Moori, Jamshid *see* **Ganief, Shahiem, 98h:20025**
Papadopoulos, Panagiotis Some amalgams in characteristic 3 related to Co_1. (English summary) **98i:20018**
Parker, Christopher (*with* Rowley, P. J.) Amalgams which involve sporadic simple groups. I, II. **98j:20014**
Rowley, P. J. *see* **Parker, Christopher, 98j:20014**
Smith, Stephen D. (*with* Yoshiara, Satoshi) Some homotopy equivalences for sporadic geometries. (English summary) **98e:20024**
Wilson, Robert A. Standard generators for sporadic simple groups. **98e:20025**
— *see also* **Jansen, Christoph, 98m:20022**
Yoshiara, Satoshi Some homotopy equivalences for sporadic groups. (English summary) **98j:20015**
— *see also* **Smith, Stephen D., 98e:20024**

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Adem, Alejandro (*with* Milgram, R. James) The cohomology of the McLaughlin group and some associated groups. **98e:20057**
Babai, László (*with* Goodman, Albert J.; Kantor, William M.; Luks, E. M.; Pálfy, P. P.) Short presentations for finite groups. (English summary) **98h:20044**
Borcherds, Richard E. (*with* Ryba, Alex J. E.) Modular Moonshine. II. **98b:17030**
Brandl, Rolf (*with* Fedri, Valeria; Serena, Luigi) On self-centralizing Sylow subgroups of order four. **98b:20022**
Chaudhuri, Shyamoli (*with* Lowe, David A.) Monstrous string-string duality. (English summary) **98c:81160**
Conway, John H. M_{13}. (English summary) **98i:20003**
Cooperman, Gene (*with* Finkelstein, Larry; Tselman, Michael; York, Bryant) Constructing permutation representations for matrix groups. (English summary) **98h:20090**
Cummins, C. J. (*with* Gannon, Terry) Modular equations and the genus zero property of moonshine functions. **98k:11046**
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Gannon, Terry *see* **Cummins, C. J., 98k:11046**
Gollan, Holger W. (*with* Michler, Gerhard O.) Construction of a 45,694-dimensional simple module of Lyons' sporadic group over GF(2). (English summary) **98e:20018**
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Huang, Janice F. Counting characters in blocks of M_{22}. **98c:20020**
Ivanov, Aleksandr Anatol'evich (*with* Stroth, Gernot) A characterization of 3-local geometry of $M(24)$. (English summary) **98g:51009**
— (*with* Shpektorov, S. V.) The universal nonabelian representation of the Petersen type geometry related to J_4. (English summary) **98i:51007**
— (*with* Meierfrankenfeld, U.) Simple connectedness of the 3-local geometry of the Monster. (English summary) **98k:51027**
Jansen, Christoph (*with* Müller, Jürgen[4]) The 3-modular decomposition numbers of the sporadic simple Suzuki group. (English summary) **98e:20019**
Kantor, William M. *see* **Babai, László; et al., 98h:20044**
Li, Xianchong (*with* You, Taijie) On the structure of inner 7-closed simple groups. (English and Chinese summaries) **98g:20029**
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Müller, Jürgen[4] *see* **Jansen, Christoph, 98e:20019**
Pálfy, P. P. *see* **Babai, László; et al., 98h:20044**
Pasechnik, D. V. The extensions of the generalized quadrangle of order (3, 9). (English summary) **98a:51010**
Pfeiffer, Götz The subgroups of M_{24}, or how to compute the table of marks of a finite group. (English summary) **98h:20032**
Quattrocchi, Pasquale (*with* Rinaldi, Gloria) Sharply four-transitive permutation sets and the Mathieu group M_{11}. (Italian. English summary) **98h:20007**
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Ryba, Alex J. E. *see* **Borcherds, Richard E., 98b:17030**
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Smith, Stephen D. (*with* Umland, Kristin L.) Stability of cohomology via double-coset products and suborbit diagrams. (English summary) **98a:20057**
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Suleiman, Ibrahim A. I. (*with* Wilson, Robert A.) The 2-modular characters of Conway's third group Co_3. (English summary) **98k:20018**
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Wilson, Robert A. A representation for the Lyons group in $\mathrm{GL}_{2480}(4)$, and a new uniqueness proof. (English summary) **98k:20019**
— *see also* **Suleiman, Ibrahim A. I., 98k:20018**
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You, Taijie *see* **Li, Xianchong, 98g:20029**

20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [see also 20F17]

Armeanu, Ion Rational groups with normal prime order subgroups. (English and Turkish summaries)
— About a conjecture of Deaconescu. (English and Turkish summaries)
— The $2'$-r groups with one conjugacy class of involutions. (English and Turkish summaries)
— The solvable Q-groups with one conjugacy class of involutions. (English and Turkish summaries)
— The Q-groups G with G' the unique minimal subgroup. (English and Turkish summaries)
— Ambivalent groups having strongly embedded subgroups. (English and Turkish summaries)
Bakić, Radoš On a theorem of Frobenius. (English summary) **98e:20026**
Ballester-Bolinches, A. (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) On $\mathscr{F}$-subnormal subgroups and $\mathscr{F}$-residuals of finite soluble groups. **98d:20020**
— (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) On π-normally embedded subgroups of finite soluble groups. **98b:20023**
— Saturated formations, theta series and completions in finite groups. (Russian. Russian summary) **98d:20021**
Beidleman, James C. (*with* Robinson, Derek J. S.) On finite groups satisfying the permutizer condition. (English summary) **98j:20016**
Casolo, Carlo (*with* Dolfi, Silvio) Conjugacy class lengths of metanilpotent groups. (English summary) **98a:20021**
Chen, Xiao Long (*with* Zhu, Ping Tian) π-normalizers of π-solvable groups. (Chinese. English and Chinese summaries)
Dolfi, Silvio *see* **Casolo, Carlo, 98a:20021**
Dutta, Tapan Kumar[1] (*with* Sen, Paramita) Some characterisations of solvable groups using maximal θ-pairs. (English summary) **98a:20022**
Guo, Wen Bin Finite groups with given normalizers of Sylow subgroups. II. (Chinese. English and Chinese summaries) **98h:20026**
— Injectors of finite groups. (Chinese. Chinese summary) **98e:20027**
— Local formations in which every subformation of type $\mathscr{N}_p$ has a complement. **98h:20027**
Hawthorn, Ian The existence and uniqueness of injectors for Fitting sets of solvable groups. (English summary)
Heiss, Stefan Antisymmetric mappings for finite solvable groups. (English summary) **98k:20023**
Liu, Feng Ju A class of solvable groups. (Chinese. English and Chinese summaries)
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Makarfi, Muhammad Umar A characterisation of cyclic subnormal separated A-groups of nilpotent length three. (English summary) **98h:20028**

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Pérez-Ramos, M. D. *see* **Ballester-Bolinches, A.; et al., 98b:20023** *and* **98d:20020**
Robinson, Derek J. S. *see* **Beidleman, James C., 98j:20016**
Sel'kin, V. M. On minimal local normally hereditary non-$\mathfrak{H}$-formations. (Russian. English and Russian summaries) **98c:20031**
Sen, Paramita *see* **Dutta, Tapan Kumar[1], 98a:20022**
Shemetkov, L. A. Frattini extensions of finite groups and formations. **98b:20024**
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Vasil'ev, A. F. (*with* Vasil'eva, T. I.) Thrice factorable finite solvable groups. (Russian. English and Russian summaries) **98k:20024**
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Vorob'ev, N. T. On the Hawkes conjecture for radical classes. (Russian. Russian summary) **98d:20022**
Wang, Kun Ren Some new characterizations of solvable saturated formations. (English and Chinese summaries) **98k:20025**
Wang, Pin Chao (*with* Lu, Zai Ping) Some sufficient conditions for solvability of a finite group. (Chinese. English and Chinese summaries) **98c:20032**
Wang, Yan Ming Existence of regular orbits and the nilpotency length of finite groups. (Chinese. English and Chinese summaries) **98c:20033**
— A remark on the c-normality of maximal subgroups of finite groups. (English summary) **98d:20023**
Xiao, Wen Jun Orders of Fitting subgroups of finite solvable groups. (Chinese. English and Chinese summaries) **98g:20031**
Zenkov, V. I. On Burnside's p^aq^b-theorem. (Russian. Russian summary) **98b:20025**
Zhang, Qinhai A class of solvable (q)-groups. (English and Chinese summaries) **98e:20028**
Zhao, Yao Qing θ-subgroup pairs for maximal subgroups of finite groups. (Chinese. English and Chinese summaries) **98g:20032**
Zhevnova, N. G. (*with* Skiba, A. N.) p-saturated formations with complemented p-saturated subformations. (Russian) **98g:20033**
Zhu, Ping Tian *see* **Chen, Xiao Long**

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Chen, Hua[4] A note on solvable and supersolvable finite groups. (Chinese. English and Chinese summaries) **98b:20049**
Ito, Noboru Remarks on Hadamard groups. **98d:20028a**
— Remarks on Hadamard groups. II. **98d:20028b**
Kamornikov, S. F. On some properties of totally local formations. (Russian. Russian summary) **98b:20051**
Li, Cai Heng (*with* Praeger, Cheryl E.) Finite groups in which any two elements of the same order are either fused or inverse-fused. (English summary) **98j:20023**
Praeger, Cheryl E. *see* **Li, Cai Heng, 98j:20023**
Ren, Yong Cai On Camina's conditions. (Chinese. English and Chinese summaries) **98d:20008**
Semenchuk, V. N. On a problem in formation theory. (Russian. English and Russian summaries) **98f:20018**

20D15 Nilpotent groups, p-groups

Amberg, Bernhard (*with* Kazarin, Lev S.) On the rank of a finite product of two p-groups. **98m:20023**
Armeanu, Ion Metabelian ambivalent groups. (English and Turkish summaries)
— The structure of the groups all whose subgroups are normal. (English and Turkish summaries)
Arregi Lizarraga, Jesús María *see* **Vera López, Antonio; et al., 98f:20002**
Bereda, Haile Michael Note on finite p-groups. (English summary) **98j:20018**
Blackburn, Norman (*with* Héthelyi, László) Some further properties of soft subgroups. (English summary) **98j:20019**
Bovdi, A. A. On circle groups of nilpotent rings of characteristic 2. (English summary) **98c:20034**
Cho, Jung Rae (*with* Ito, Noboru; Kim, Pan Soo; Sim, Hyo-Seob) Hadamard 2-groups with arbitrarily large derived length. (English summary)
Cutolo, G. (*with* Khukhro, E. I.; Lennox, John C.; Rinauro, S.; Smith, Howard; Wiegold, James) Locally finite groups all of whose subgroups are boundedly finite over their cores. (English summary) **98j:20020**
Dıkıcı, Ramazan (*with* Smith, Geoff C.) Fibonacci sequences in finite nilpotent groups. (English and Turkish summaries) **98i:20019**
Gilotti, A. L. (*with* Tiberio, Umberto) Finite groups with self-centralizing p-elements. (Italian summary) **98b:20026**
Glauberman, George Large abelian subgroups of finite p-groups. **98h:20029**
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Kahn, Bruno A characterisation of powerfully embedded normal subgroups of a p-group. (English summary) **98c:20035**
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Kim, Pan Soo *see* **Cho, Jung Rae; et al.**
Kochergin, V. V. On the complexity of computations in finite nilpotent groups. (Russian. Russian summary) **98c:20036**
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Tiberio, Umberto *see* **Gilotti, A. L., 98b:20026**
Vera López, Antonio (*with* Arregi Lizarraga, Jesús María; Vera-López, F. J.) Some bounds for the degree of commutativity of a p-group of maximal class. III. (English summary) **98f:20002**
Vera-López, F. J. *see* **Vera López, Antonio; et al., 98f:20002**
Virág, Imre Generalization of certain theorems on p-subgroups.
Wang, Pin Chao (*with* Yang, Zhao Xing) Some theorems on finite groups. (Chinese. English and Chinese summaries) **98c:20037**
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Ballester-Bolinches, A. (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) On $\mathfrak{F}$-subnormal subgroups and $\mathfrak{F}$-residuals of finite soluble groups. **98d:20020**
Bartsch, René (*with* Pazderski, G.) Über Gruppen, deren irreduzible Charaktere sämtlich quasiprimitiv sind. (German summary) [On groups all of whose irreducible characters are quasiprimitive] **98b:20006**
Broecker, Claudia (*with* Schulz, Ralph-Hardo; Stroth, Gernot) Check character systems using Chevalley groups. (English summary) **98b:20027**
Cutolo, G. (*with* Khukhro, E. I.; Lennox, John C.; Wiegold, James; Rinauro, S.; Smith, Howard) Finite core-p p-groups. (English summary) **98g:20065**
Flannery, D. L. The finite irreducible linear 2-groups of degree 4. (English summary) **98b:20078**
Green, David J. ★ Constructing projective resolutions for p-groups. **98h:20095**
— Chern classes and the extraspecial p-group of order p^5 and exponent p. (English summary) **98m:20068**
Hanaki, Akihide Self-dual groups of order p^5 (p an odd prime).
Karhumäki, Juhani (*with* Plandowski, Wojciech) On the size of independent systems of equations in semigroups. **98b:20092**
Khukhro, E. I. *see* **Cutolo, G.; et al., 98g:20065**
Kostrikin, Aleksei Ivanovich (*with* Kuznetsov, M. I.) Finite-dimensional Lie algebras with a nonsingular derivation. **98i:17023**
Kuznetsov, M. I. *see* **Kostrikin, Aleksei Ivanovich, 98i:17023**
Lennox, John C. *see* **Cutolo, G.; et al., 98g:20065**
Li, Cai Heng (*with* Praeger, Cheryl E.) Finite groups in which any two elements of the same order are either fused or inverse-fused. (English summary) **98j:20023**
Liedahl, Steven Enumeration of metacyclic p-groups. **98c:20041**
Mainardis, Mario On the poset of conjugacy classes of subgroups of finite p-groups. **98f:20011**
Morigi, Marta A note on factorized (finite) p-groups. **98k:20030**
Navarro, Gabriel Fusion in the character table. (English summary) **98c:20017**
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Rinauro, S. *see* **Cutolo, G.; et al., 98g:20065**
Schulz, Ralph-Hardo *see* **Broecker, Claudia; et al., 98b:20027**
Shalev, Aner (*with* Zelmanov, Efim I.) Narrow Lie algebras: a coclass theory and a characterization of the Witt algebra. (English summary) **98d:17032**
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Stroth, Gernot *see* **Broecker, Claudia; et al., 98b:20027**
Vaughan-Lee, Michael (*with* Zelmanov, Efim I.) Upper bounds in the restricted Burnside problem. II. (English summary) **98c:20063**
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Zhao, Yao Qing θ-subgroup pairs for maximal subgroups of finite groups. (Chinese. English and Chinese summaries) **98g:20032**

20D20 Sylow subgroups, Sylow properties, π-groups, π-structure

Armeanu, Ion Sylow 2-subgroups of $2'$-π groups. (English and Turkish summaries)
— The 2-Sylow subgroups of groups having strongly embedded subgroups.
Beltrán, Antonio Actions with nilpotent fixed point subgroup. (English summary) **98d:20024**
Broecker, Claudia (*with* Schulz, Ralph-Hardo; Stroth, Gernot) Check character systems using Chevalley groups. (English summary) **98b:20027**
Dasgupta, Amil *see* **Feldman, Arnold D., 98h:20031**
Du, Zhaowei Hall subgroups and π-separable groups. (English summary) **98h:20030**
Feldman, Arnold D. (*with* Dasgupta, Amil) An intersection property of Sylow 2-subgroups in non-solvable groups. **98h:20031**
Foguel, Tuval Conjugate-permutable subgroups. **98h:20028**
Ito, Noboru On Hadamard groups. III. **98k:20026**
Kreknin, V. A. (*with* Mel'nik, I. I.) Finite groups with complemented maximal primary cyclic subgroups. (Russian. English and Ukrainian summaries) **98k:20027**
Lim, Voon Ka On Frobenius groups of odd order p^3q. (English summary) **98i:20020**
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Peterson, Brian (*with* Valdés, Linda) Derangements in Sylow subgroups of symmetric groups. (English summary)
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Valdés, Linda *see* **Peterson, Brian**
Zenkov, V. I. On orders of intersections of Sylow p-subgroups in finite groups. (Russian. Russian summary) **98j:20021**

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Ballester-Bolinches, A. (*with* Pedraza-Aguilera, M. C.; Pérez-Ramos, M. D.) On π-normally embedded subgroups of finite soluble groups. **98b:20023**
Cannon, John J. (*with* Cox, Bruce C.; Holt, Derek F.) Computing Sylow subgroups in permutation groups. (English summary) **98m:20010**
Choi, Eunmi Cohomology of groups and transfer theorem. (English summary) **98h:20093**
Cox, Bruce C. *see* **Cannon, John J.; et al., 98m:20010**
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Isaacs, I. M. (*with* Robinson, Geoffrey R.) Linear constituents of certain character restrictions. (English summary) **98k:20010**
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Wang, Xiao Jing (*with* Liu, Qiu Xiang; Wang, Pin Chao) A class of Frattini-like subgroups of a finite group. (Chinese. English and Chinese summaries)

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Kazarin, Lev S. Soluble products of groups. (English summary) **98k:20029**
Morigi, Marta A note on factorized (finite) p-groups. **98k:20030**
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— (*with* Yu, Shuxia) A result about abelian automorphism groups. (English summary) **98g:20035**
Cossey, John Automorphisms fixing every subnormal subgroup of a finite group. **98a:20024**
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Grundhöfer, Theo Commutativity of finite groups according to Wedderburn and Witt. (English summary)
Hamidoune, Yahya Ould Adding distinct congruence classes. (English summary) **98j:20025**
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Li, Cai Heng On finite groups with the Cayley invariant property. (English summary) **98k:20031**
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Troi, G. (*with* Zannier, Umberto) On a theorem of J. E. Olson and an application (vanishing sums in finite abelian p-groups). (English summary) **98j:20026**
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Bhowmik, Gautami (*with* Wu, Jie[1]) On the asymptotic behaviour of the number of subgroups of finite abelian groups. (English summary) **98i:11079**
Casolo, Carlo (*with* Dolfi, Silvio) Conjugacy class lengths of metanilpotent groups. (English summary) **98a:20021**
Chen, Guiyun A new characterization of Suzuki-Ree group. (English summary) **98j:20013**
Corrádi, Keresztély (*with* Szabó, Sándor) An axiomatic approach for the Hajós theorem. (English summary) **98e:20058**
Cutolo, G. (*with* Khukhro, E. I.; Lennox, John C.; Rinauro, S.; Smith, Howard; Wiegold, James) Locally finite groups all of whose subgroups are boundedly finite over their cores. (English summary) **98j:20020**
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Srinivasan, Seshadri Corrigendum: "On orders solely of abelian groups. III" [J. Number Theory **39** (1991), no. 2, 175–180; MR 92j:11110].
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Boston, Nigel Some calculus and open problems in finite group theory. (*see* **98g:20004**)
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Deng, Hui Wen Subgroups of E_8^+-groups. (Chinese)
Derbeneva, O. V. Groups with a relatively large commutativity measure. (Russian) **98j:20027**
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Zhevnova, N. G. Extrinsic characterization of a class of finite p-decomposable groups. (Russian. English and Russian summaries)

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Armeanu, Ion Some remarks on 2-elements and 2-subgroups of finite groups.
Arvind, V. (*with* Vinodchandran, N. V.) Solvable black-box group problems are low for PP. (English summary) **98m:68108**
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Davydov, Aleksei Aleksandrovich Periodic λ-rings and periods of finite groups. (Russian. Russian summary) **98j:20010**
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Grove, Larry C. ★ Groups and characters. (English summary) **98e:20012**
Hanaki, Akihide (*with* Okuyama, Tetsuro) Groups with some combinatorial properties. **98m:05200**
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Lucchini, Andrea A bound on the presentation rank of a finite group. **98e:20042**
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20E05 Free nonabelian groups

Bestvina, Mladen (*with* Feighn, M.; Handel, Michael) Laminations, trees, and irreducible automorphisms of free groups. (English summary) **98c:20045**
— (*with* Feighn, M.; Handel, Michael) Erratum to: "Laminations, trees, and irreducible automorphisms of free groups" [Geom. Funct. Anal. **7** (1997), no. 2, 215–244; MR 98c:20045]. **98k:20034**
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Jassim, W. S. On the intersection of finitely generated subgroups of free groups. (English summary) **98c:20046**
Macedońska, Olga (*with* Tomaszewski, Witold) Fixed points induced by the permutation of generators in a free group of rank 2. (English summary) **98f:20006**
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Thompson, John G. Power maps and completions of free groups and of the modular group. **98a:20026**
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Cohen, Stephen D. (*with* Glass, A. M. W.) Free groups from fields. **98c:12003**
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Hurley, T. C. (*with* Schgal, Sudarshan K.) The modular Fox subgroups. **98c:16032**
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Mühlherr, Bernhard Automorphisms of free groups and universal Coxeter groups. **98j:20041**
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Satô, Kenzi A Hausdorff decomposition on a countable subset of S^2 without the axiom of choice. (English summary) **98a:54006**
Savushkina, A. G. On a group of conjugating automorphisms of a free group. (Russian. Russian summary) **98d:20038**
Sehgal, Sudarshan K. *see* **Hurley, T. C.**, **98c:16032**
Stong, Richard Diskbusting elements of the free group. (English summary) **98h:20049**
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Azarian, Mohammad K. A key theorem on the near Frattini subgroups of generalized free product of groups. (English summary) **98b:20036**
Bhattacharjee, Meenaxi Some interesting finitely presented infinite amalgamated free products. **98b:20037**
Ershov, Yu. L. On free products of absolute Galois groups. (Russian) **98k:20036**
Faĭziev, Valeriĭ A. Pseudocharacters on free products of groups. (English summary)
Johnson, David Lawrence (*with* Kim, Ann Chi; Song, Hyun-Jong) The growth of the trefoil group. (English summary) **98f:20007**
Kapovich, Ilya Amalgamated products and the Howson property. (English summary) **98i:20022**
Kim, Ann Chi *see* **Johnson, David Lawrence; et al.**, **98f:20007**
Li, Hui Ling Some work on the connection between groups and combinatorics. **98c:20047**
Lyul'ko, A. N. Genetics of the stabilizer of the abelianization of the free product of groups. (Russian) **98g:20040**
Minty, R. John H. Faithful representations of free products. **98h:20036**
Neshchadim, M. V. Free products of groups that do not have outer normal automorphisms. (Russian. Russian summary) **98c:20048**
Raptis, E. (*with* Talelli, O.; Varsos, D.) On the conjugacy separability of certain graphs of groups. **98k:20037**
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Vol'vachev, R. T. Linear representability of HNN-extensions of finite cyclic groups. (Russian. English and Russian summaries) **98e:20034**
Wong, P. C. (*with* Tang, Chiew Khiam) Free products of residually p-finite groups with commuting subgroups. (English summary) **98m:20026**
You, Shihong The product separability of the generalized free product of cyclic groups. (English summary) **98h:20038**

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Corson, J. M. Amalgamated sums of groups. (English summary) **98b:20042**
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— (*with* Levin, Frank; Rosenberger, Gerhard) Faithful complex representations of one relator groups. (English summary) **98e:20041**
— (*with* Rosenberger, Gerhard; Stille, Michael) The isomorphism problem for a class of para-free groups. (English summary) **98m:20036**
Gitik, Rita On the combination theorem for negatively curved groups. (English summary) **98b:20058a**
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— On quasiconvex subgroups of negatively curved groups. (English summary) **98b:20057**
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Grigorchuk, Rostislav Bounded cohomology of group constructions. (Russian) **98f:20037**
Groves, J. R. J. Minimal length normal forms for some soluble groups. (English summary) **98b:20044**
Kapovich, Ilya Quasiconvexity and amalgams. (English summary) **98k:20057**
Kharlampovich, O. (*with* Myasnikov, A. G.) Hyperbolic groups and free constructions. **98d:20041**
Kim, Goansu (*with* Tang, Francis C. Y.) Cyclic conjugacy separability of groups. (English summary) **98f:20012**
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"On the combination theorem for negatively curved groups" Errata: "On the combination theorem for negatively curved groups" [Internat. J. Algebra Comput. **6** (1996), no. 6, 751–760; MR 98b:20058a] by R. Gitik. (English summary) **98b:20058c**

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20E34 General structure theorems

Smith, Howard (*with* Wiegold, James) Groups which are isomorphic to their nonabelian subgroups. (English summary) **98k:20039**
Wiegold, James *see* **Smith, Howard**, **98k:20039**

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Chernikov, N. S. (*with* Malan′ina, G. A.) A complementability condition in groups. (Russian. English and Ukrainian summaries) **98c:20074**
Malan′ina, G. A. *see* **Chernikov, N. S.**, **98c:20074**

20E36 General theorems concerning automorphisms of groups

Ventura Capell, Enric On fixed subgroups of maximal rank. (English summary) **98h:20042**

Items with secondary classifications in 20E36

Gupta, Chander Kanta (*with* Timoshenko, E. I.) Automorphic and endomorphic reducibility and primitive endomorphisms of free metabelian groups. (English summary) **98g:20052**
Shpilrain, Vladimir Fixed points of endomorphisms of a free metabelian group. (English summary) **98k:20056**
Timoshenko, E. I. *see* **Gupta, Chander Kanta**, **98g:20052**

20E42 Groups with a BN-pair; buildings [see also 51E24]

Abramenko, Peter Group actions on twin buildings. **98d:20032**
— (*with* Mühlherr, Bernhard) Présentations de certaines BN-paires jumelées comme sommes amalgamées. (English and French summaries) [Presentation of certain twin BN-pairs as amalgamated sums] **98h:20043**
Bourdon, Marc Immeubles hyperboliques, dimension conforme et rigidité de Mostow. (English and French summaries) [Hyperbolic buildings, conformal dimension and Mostow rigidity] **98c:20056**
Mühlherr, Bernhard *see* **Abramenko, Peter**, **98h:20043**

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Baumeister, Barbara A computer-free construction of the third group of Janko. (English summary) **98e:20023**
— (*with* Pasini, Antonio) On flat flag-transitive $c.c^*$-geometries. (English summary) **98a:51008**
Cartwright, Donald I. A brief introduction to buildings. (English summary) **98k:51026**
Garrett, Paul ★ Buildings and classical groups. (English summary) **98k:20081**
Joswig, Michael Translation generalized quadrangles. **98d:51007**
Kleiner, Bruce (*with* Leeb, Bernhard) Rigidity of quasi-isometries for symmetric spaces and Euclidean buildings. **98m:53068**

Landvogt, Erasmus ★ A compactification of the Bruhat-Tits building. **98h:20081**
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Marcuson, Richard A note on the Tits systems of Kac-Moody Steinberg groups. (English summary) **98f:22024**
Papadopoulos, Panagiotis Some amalgams in characteristic 3 related to Co_1. (English summary) **98i:20018**
Pasini, Antonio *see* **Baumeister, Barbara**, **98a:51008**
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Steger, Tim Local fields and buildings. **98k:11042**

20E99 None of the above, but in this section

Gaglione, A. M. (*with* Myasnikov, A. G.; Remeslennikov, V. N.; Spellman, D.) Formal power series representations of free exponential groups. (English summary) **98g:20045**
Myasnikov, A. G. *see* **Gaglione, A. M.; et al.**, **98g:20045**
Remeslennikov, V. N. *see* **Gaglione, A. M.; et al.**, **98g:20045**
Shalev, Aner Groups whose subgroup growth is less than linear. (English summary) **98g:20046**
Spellman, D. *see* **Gaglione, A. M.; et al.**, **98g:20045**

Items with secondary classifications in 20E99

Wagner, Frank O. Stable groups (a survey). (English summary) **98g:03088**
Walter, Vonn Linear groups rich in finite quotients. (English summary) **98j:20069**

20Fxx Special aspects of infinite or finite groups

20F05 Generators, relations, and presentations

Arzhantseva, G. N. (*with* Ol'shanskiĭ, A. Yu.) Generality of the class of groups in which subgroups with a lesser number of generators are free. (Russian. Russian summary) **98k:20040**
Babai, László (*with* Goodman, Albert J.; Kantor, William M.; Luks, E. M.; Pálfy, P. P.) Short presentations for finite groups. (English summary) **98h:20044**
Baik, Y. G. (*with* Bogley, W. A.; Pride, S. J.) On the asphericity of length four relative group presentations. (English summary) **98g:20047**
Baumslag, Gilbert (*with* Miller, Charles F., III) Experimenting and computing with infinite groups. (English summary) **98c:20057**
— (*with* Bridson, Martin R.; Miller, Charles F., III; Short, Hamish) Finitely presented subgroups of automatic groups and their isoperimetric functions. (English summary) **98j:20034**
Belyaev, V. V. (*with* Hartley, Brian) Centralizers of finite nilpotent subgroups in locally finite groups. (Russian. Russian summary) **98e:20040**
Bogley, W. A. *see* **Baik, Y. G.; et al.**, **98g:20047**
Bridson, Martin R. *see* **Baumslag, Gilbert; et al.**, **98j:20034**
Brodskiĭ, S. D. (*with* Howie, James) The universal torsion-free image of a group. (English summary) **98g:20048**
Brookes, Melanie J. (*with* Campbell, Colin M.; Robertson, Edmund F.) Efficiency and direct products of groups. (English summary) (*see* **98e:20003**)
Brungs, H. H. (*with* Törner, G.) Right cones in groups. (English summary) **98k:20041**
Campbell, Colin M. (*with* Robertson, Edmund F.; Williams, P. D.) Efficient presentations of direct powers of imperfect groups. (English summary) **98c:20058**
— *see also* **Brookes, Melanie J.; et al.**, (**98e:20003**)
Corson, J. M. Amalgamated sums of groups. (English summary) **98b:20042**
Cuypers, Hans A characterization of the symplectic and unitary 3-transposition groups. (English summary) **98h:20045**
Ellers, Erich W. (*with* Nolte, Wolfgang) Groups satisfying Scherk's length theorem. (English summary) **98m:20032**
Evans, Martin J. Presentations of free abelian-by-(nilpotent of class 2) groups. **98k:20042**
Everitt, Brent Alternating quotients of the $(3, q, r)$ triangle groups. (English summary) **98b:20043**
Fine, Benjamin (*with* Levin, Frank; Rosenberger, Gerhard) Faithful complex representations of one relator groups. (English summary) **98e:20041**
Fournelle, T. A. (*with* Weston, K. W.) ★ Generalizations of Steinberg groups. **98h:20046**
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Hammas, A. M. Symmetric generating set of the groups A_{2n+1} and S_{2n+1} using S_n and an element of order two. (English summary) **98j:20035**
Harlander, Jens Embeddings into efficient groups. (English summary) **98c:20059**
Hartley, Brian *see* **Belyaev, V. V.**, **98e:20040**
Helling, Heinz *see* **Vinberg, Ėrnest Borisovich; et al.**, **98i:20031**
Howie, James (*with* Metaftsis, Vasileios; Thomas, Richard M.) Triangle groups and their generalisations. (English summary) (*see* **98e:20003**)
— *see also* **Brodskiĭ, S. D.**, **98g:20048**
Humphries, Stephen P. Cogrowth of groups and a matrix of Redheffer. (English summary) **98m:20033**
Jamali, A. On the efficiency of some wreath products of groups. (English and Persian summaries) **98k:20043**
Kantor, William M. *see* **Babai, László; et al.**, **98h:20044**
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Kim, Ann Chi (*with* Kostrikin, Alekseĭ Ivanovich) Some balanced groups and 3-manifolds. (Russian. Russian summary) **98g:20049a**
— (*with* Kostrikin, Alekseĭ Ivanovich) Letter to the editors: "Some balanced groups and 3-manifolds". (Russian) **98g:20049b**
Kostrikin, Alekseĭ Ivanovich *see* **Kim, Ann Chi**, **98g:20049a** *and* **98g:20049b**
Levin, Frank *see* **Fine, Benjamin; et al.**, **98e:20041**
Liriano, Sal A new proof of a theorem of Magnus. (English summary) **98c:20060**
Lo, Eddie H. A polycyclic quotient algorithm. (English summary) **98h:20047**
Lucchini, Andrea A bound on the presentation rank of a finite group. **98e:20042**
— (*with* Menegazzo, Federico) Generators for finite groups with a unique minimal normal subgroup. **98m:20034**
Luks, E. M. *see* **Babai, László; et al.**, **98h:20044**
McCool, James Generating the mapping class group (an algebraic approach). (English summary) **98c:20061**
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Miller, Charles F., III *see* **Baumslag, Gilbert**, **98c:20057** *and* **98j:20034**
Mustaq, Q. (*with* Zafar, N. A.) Alternating and symmetric groups as quotients of $G^{5,6,36}$. (English summary) **98g:20050**
Nolte, Wolfgang *see* **Ellers, Erich W.**, **98m:20032**
Obraztsov, V. N. On a problem of P. Hall about groups isomorphic to all their non-trivial normal subgroups. **98c:20062**
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— *see also* **Arzhantseva, G. N.**, **98k:20040**
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— *see also* **Campbell, Colin M.; et al.**, **98c:20058** *and* **Brookes, Melanie J.; et al.**, (**98e:20003**)
Rosenberger, Gerhard *see* **Fine, Benjamin; et al.**, **98e:20041**
Rosenmann, Amnon The normalized cyclomatic quotient associated with presentations of finitely generated groups. (English summary) **98m:20035**
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Silver, Daniel S. (*with* Williams, Susan G.) Augmented group systems and shifts of finite type. (English summary) **98b:20045**
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— (*with* Zelmanov, Efim I.) Upper bounds in the restricted Burnside problem. II. (English summary) **98c:20063**
Vinberg, Ėrnest Borisovich (*with* Mennicke, Jens L.; Helling, Heinz) On some generalized triangular groups and three-dimensional orbifolds. (Russian. Russian summary) **98i:20031**
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Williams, P. D. *see* **Campbell, Colin M.; et al.**, **98c:20058**
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Wotherspoon, C. I. *see* **Robertson, Edmund F.; et al.**, (**98e:20003**)
Wreth, S. A certain non-singular system of length three equations over a group. (English summary) **98i:20032**
Zafar, N. A. *see* **Mustaq, Q.**, **98g:20050**
Zara, F. Action of reflection groups on nilpotent groups. **98f:20015**
Zelmanov, Efim I. *see* **Vaughan-Lee, Michael**, **98c:20063**

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Bartholdi, Laurent (*with* Cantat, Serge; Ceccherini-Silberstein, Tullio G.; de la Harpe, Pierre) Estimates for simple random walks on fundamental groups of surfaces. (English summary) **98d:60133a**
Burns, John M. (*with* Ellis, Graham) On the nilpotent multipliers of a group. **98h:20050**
Cantat, Serge *see* **Bartholdi, Laurent; et al.**, **98d:60133a**
Cathelineau, Jean-Louis Remarques sur les différentielles des polylogarithmes uniformes. (English and French summaries) [Remarks on the differentials of uniform polylogarithms] **98k:19006**
Ceccherini-Silberstein, Tullio G. *see* **Bartholdi, Laurent; et al.**, **98d:60133a**
Chaboud, Thomas About planar Cayley graphs. (*see* **98a:68005**)
Cherix, Pierre-Alain (*with* Valette, Alain) On spectra of simple random walks on one-relator groups. (English summary) **98b:43001**
Cohen, Arjeh M. Yet another lecture on the icosahedron. **98k:20002**
Cohen, Daniel E. String rewriting and homology of monoids. (English summary) **98j:20084**
Corson, J. M. (*with* Trace, B.) Geometry and algebra of nonspherical 2-complexes. **98b:57007**
Cremanns, Robert Prefix-rewriting on context-free groups. (English summary) **98e:68126**
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Fine, Benjamin (*with* Rosenberger, Gerhard; Stille, Michael) Nielsen transformations and applications: a survey. **98g:20039**
— (*with* Rosenberger, Gerhard; Stille, Michael) The isomorphism problem for a class of para-free groups. (English summary) **98m:20036**
Groves, J. R. J. An algorithm for computing homology groups. **98g:20082**
Hammoudi, Lakhdar ★ Nil-algèbres non-nilpotentes et groupes périodiques infinis. (French. French summary) [Nonnilpotent nil algebras and infinite periodic groups] **98j:16010**
de la Harpe, Pierre *see* **Bartholdi, Laurent; et al.**, **98d:60133a**

Holt, Derek F. (*with* Plesken, Wilhelm; Souvignier, B.) Constructing a representation of the group (2, 3, 7; 11). (English summary) **98i:20007**
Johnson, David Lawrence ★ Presentations of groups. **98e:20001**
(Jolissaint, Paul) *see* **Cherix, Pierre-Alain**, **98b:43001**
Kim, Yangkok (*with* Vesnin, Andrei) On the Johnson's question about the Kim-Kostrikin group. (English summary) **98d:20042**
Kiralis, Geoffrey (*with* Krstić, Sava; McCool, James) Finite presentability of $\Phi_n(G)$, $\mathrm{GL}_n(\mathbf{Z}G)$ and their elementary subgroups and Steinberg groups. **98a:20046**
Kołodziejczyk, Danuta There exists a polyhedron dominating infinitely many different homotopy types. (English summary) **98d:55016**
Krstić, Sava (*with* McCool, James) The non-finite presentability of $\mathrm{IA}(F_3)$ and $\mathrm{GL}_2(\mathbf{Z}[t, t^{-1}])$. **98h:20053**
— *see also* **Kiralis, Geoffrey; et al.**, **98a:20046**
Lehrer, Gus I. Fourier transforms, nilpotent orbits, Hall polynomials and Green functions. **98b:20074**
Lins, Sóstenes (*with* Mulazzani, Michele) On the vertex group of n-manifolds. (English summary) **98c:05078**
Lynch, Christopher (*with* Strogova, Polina) PATCH graphs: an efficient data structure for completion of finitely presented groups. (English summary) **98f:68138**
Malle, Gunter Presentations for crystallographic complex reflection groups. (English summary) **98a:20053**
McCool, James *see* **Kiralis, Geoffrey; et al.**, **98a:20046** *and* **Krstić, Sava**, **98h:20053**
Mulazzani, Michele *see* **Lins, Sóstenes**, **98c:05078**
Newman, M. F. (*with* Vaughan-Lee, Michael) Some Lie rings associated with Burnside groups. (English summary) **98i:17039**
Nuzhin, Ya. N. Generating triples of involutions of Lie-type groups over a finite field of odd characteristic. I. (Russian. Russian summary) **98g:20030**
— Generating triples of involutions of Lie-type groups over a finite field of odd characteristic. II. (Russian. Russian summary) **98m:20021**
Phillips, Richard E. Linear groups generated by elements of small degree. **98b:20072**
Plesken, Wilhelm *see* **Holt, Derek F.; et al.**, **98i:20007**
Quick, Martyn A classification of some insoluble varieties of groups of exponent four. (English summary) **98k:20038**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al.**, **98g:20039** *and* **98m:20036**
Rozhkov, A. V. Lower central series of a group of tree automorphisms. (Russian. Russian summary) **98b:20048**
Saito, Kyoji (*with* Takebayashi, Tadayoshi) Extended affine root systems. III. Elliptic Weyl groups. (English summary) **98d:20047**
Souvignier, B. *see* **Holt, Derek F.; et al.**, **98i:20007**
Stallings, John R. Generic elements in certain groups. (English summary) **98m:20025**
Stille, Michael *see* **Fine, Benjamin; et al.**, **98g:20039** *and* **98m:20036**
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Tang, Francis C. Y. Conjugacy separability of generalized free products of surface groups. (English summary) **98h:20037**
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Vaughan-Lee, Michael *see* **Newman, M. F.**, **98i:17039**
Vesnin, Andrei *see* **Kim, Yangkok**, **98d:20042**
Wong, P. C. Subgroup separability of certain HNN extensions of finitely generated abelian groups. (English summary) **98e:20039**
Worthington, R. L. The growth series of $H\wr(\mathbf{Z}\times Z_2)$. (English summary) **98c:20055**
Żuk, Andrzej A remark on the norm of a random walk on surface groups. (English summary) **98d:60133b**

20F06 Cancellation theory; application of van Kampen diagrams [see also 57M05]

Ivanov, Sergei Vladimir (*with* Schupp, P. E.) On the hyperbolicity of small cancellation groups and one-relator groups. (English summary) **98h:20048**
Schupp, P. E. *see* **Ivanov, Sergei Vladimir**, **98h:20048**
Wise, Daniel T. Incoherent negatively curved groups. (English summary) **98f:20016**

Items with secondary classifications in 20F06

Arzhantseva, G. N. (*with* Ol'shanskiĭ, A. Yu.) Generality of the class of groups in which subgroups with a lesser number of generators are free. (Russian. Russian summary) **98k:20040**
Corson, J. M. (*with* Trace, B.) Geometry and algebra of nonspherical 2-complexes. **98b:57007**
— Amalgamated sums of groups. (English summary) **98b:20042**
Ol'shanskiĭ, A. Yu. *see* **Arzhantseva, G. N.**, **98k:20040**
Papasoglu, P. On the asymptotic cone of groups satisfying a quadratic isoperimetric inequality. (English summary) **98d:57006**
— Quasi-flats in semihyperbolic groups. (English summary) **98j:20043**
Trace, B. *see* **Corson, J. M.**, **98b:57007**

20F10 Word problems, other decision problems, connections with logic and automata [see also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]

Adeleke, S. A. *see* **Welch, L. V.**, **98c:20064**
d'Alessandro, Flavio (*with* Sakarovitch, Jacques) The finite power property for rational sets of a free group. (*see* **98i:00020**)
Anokhin, M. I. Some algorithmic problems for relatively free groups. (English summary) **98g:20051**
Dekov, Deko V. Finite complete rewriting systems for groups. **98k:20045**
Durnev, V. G. On the problem of the solvability of equations with one coefficient. (Russian. Russian summary) **98d:20034**
Fine, Benjamin (*with* Rosenberger, Gerhard; Stille, Michael) The isomorphism problem for a class of para-free groups. (English summary) **98m:20036**
Gupta, Chander Kanta (*with* Timoshenko, E. I.) Automorphic and endomorphic reducibility and primitive endomorphisms of free metabelian groups. (English summary) **98g:20052**
Möller, Thomas W. Combinatorial classification of finitely generated virtually free groups. **98m:20037**
Neumann, Walter D. (*with* Shapiro, Michael David) Regular geodesic normal forms in virtually abelian groups. (English summary) **98f:20017**
Ostheimer, Gretchen Algorithms for polycyclic-by-finite matrix groups. (English summary) **98g:20053**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al.**, **98m:20036**
Sakarovitch, Jacques *see* **d'Alessandro, Flavio**, (**98i:00020**)
Shapiro, Michael David *see* **Neumann, Walter D.**, **98f:20017**
Stille, Michael *see* **Fine, Benjamin; et al.**, **98m:20036**
Stong, Richard Diskbusting elements of the free group. (English summary) **98h:20049**
Timoshenko, E. I. *see* **Gupta, Chander Kanta**, **98g:20052**
Welch, L. V. (*with* Adeleke, S. A.) On universal words for automorphism groups of linear orders. **98c:20064**
Zaĭtsev, S. A. An estimate for the number of groups with one relation that have corank 1. (Russian)

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Belegradek, Oleg V. Higman's embedding theorem in a general setting and its application to existentially closed algebras. (English summary) **98m:03091**
Dehornoy, Patrick A fast method for comparing braids. (English summary) **98b:20060**
Fine, Benjamin (*with* Rosenberger, Gerhard; Stille, Michael) Nielsen transformations and applications: a survey. **98g:20039**
Gitik, Rita Graphs and separability properties of groups. (English summary) **98e:20033**
Hall, T. E. (*with* Kublanovskiĭ, S. I.; Margolis, Stuart W.; Sapir, Mark V.; Trotter, Peter G.) Algorithmic problems for finite groups and finite 0-simple semigroups. (English summary) **98h:20101**
Kang, Eun Sook (*with* Ko, Ki Hyoung; Lee, Sang Jin) Band-generator presentation for the 4-braid group. (English summary) **98f:57012**
Kim, Goansu (*with* Tang, Francis C. Y.) Cyclic conjugacy separability of groups. (English summary) **98f:20012**
Ko, Ki Hyoung *see* **Kang, Eun Sook; et al.**, **98f:57012**
Kobayashi, Yuji *see* **Otto, Friedrich**, **98f:68148**
Kublanovskiĭ, S. I. *see* **Hall, T. E.; et al.**, **98h:20101**
Lee, Sang Jin *see* **Kang, Eun Sook; et al.**, **98f:57012**
Margolis, Stuart W. *see* **Hall, T. E.; et al.**, **98h:20101**
Otto, Friedrich (*with* Kobayashi, Yuji) Properties of monoids that are presented by finite convergent string-rewriting systems—a survey. (English summary) **98f:68148**
Rosenberger, Gerhard *see* **Fine, Benjamin; et al.**, **98g:20039**
Sapir, Mark V. *see* **Hall, T. E.; et al.**, **98h:20101**
Shapiro, Michael David Pascal's triangles in abelian and hyperbolic groups. (English summary) **98g:20063**
Stallings, John R. Generic elements in certain groups. (English summary) **98m:20025**
Stille, Michael *see* **Fine, Benjamin; et al.**, **98g:20039**
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20F12 Commutator calculus

Akhavan-Malayeri, Mehri (*with* Rhemtulla, Akbar H.) Commutator length of abelian-by-nilpotent groups. (English summary) **98k:20046**
Rhemtulla, Akbar H. *see* **Akhavan-Malayeri, Mehri**, **98k:20046**

Items with secondary classifications in 20F12

Anokhin, M. I. Some algorithmic problems for relatively free groups. (English summary) **98g:20051**
Ellers, Erich W. (*with* Gordeev, N. L.) On the conjectures of J. Thompson and O. Ore. (English summary) **98k:20022**
Endimioni, Gérard On the locally finite p-groups in certain varieties of groups. **98j:20029**
Gordeev, N. L. *see* **Ellers, Erich W.**, **98k:20022**
Kulikov, Vik. S. Finite presentability of the commutant of the fundamental group of the complement to a plane curve. (Russian. Russian summary) **98j:20045**
Newell, Martin L. On the 4-Levi centre and the 4-Bell centre of a group. **98j:20050**
Quick, Martyn A classification of some insoluble varieties of groups of exponent four. (English summary) **98k:20038**
Vaughan-Lee, Michael Engel-4 groups of exponent 5. **98a:20036**

20F14 Derived series, central series, and generalizations

Burns, John M. (*with* Ellis, Graham) On the nilpotent multipliers of a group. **98h:20050**
Ellis, Graham *see* **Burns, John M.**, **98h:20050**
Garrison, David J. (*with* Kappe, Luise-Charlotte) Metabelian groups with all cyclic subgroups subnormal of bounded defect. (English summary) **98i:20033**
Kappe, Luise-Charlotte *see* **Garrison, David J.**, **98i:20033**
Landolfi, Tommaso On generalized central series of groups. (English summary) **98k:20047**
Quick, Martyn The module structure of some lower central factors of Burnside groups of exponent four. **98m:20038**
Rozhkov, A. V. Lower central series of a group of tree automorphisms. (Russian. Russian summary) **98b:20048**

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Kayvanfar, Saeed *see* **Moghaddam, Mohammad Reza R.**, **98a:20027**
Lennox, John C. Centrality in soluble groups. (*see* **98e:20004**)

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Vermani, L. R. (*with* Razdan, Atul) On subgroups determined by certain ideals in group rings. (English summary) **98c:16035**

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Armeanu, Ion Supersolvable $2'$-π groups. (English and Turkish summaries)
Berkovich, Yakov G. (*with* Longobardi, P.; Maj, M.) Finite and locally solvable periodic groups with given intersections of certain subgroups. (English summary) **98d:20035**
Chen, Hua[4] A note on solvable and supersolvable finite groups. (Chinese. English and Chinese summaries) **98b:20049**
Lennox, John C. Centrality in soluble groups. (*see* **98e:20004**)
— On soluble groups in which centralizers are finitely generated. **98c:20065**
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Ramadan, Mohamed Finite groups in which some subgroups of prime power order are quasinormal. (English summary) **98m:20039**
Sidki, Said Torsion-free metabelian groups with finite commutator quotients.
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Wen, Feng Tong *see* **Wang, Pin Chao; et al.**
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Bux, Kai-Uwe Finiteness properties of certain metabelian arithmetic groups in the function field case. **98f:20035**
Catino, F. (*with* Miccoli, M. M.) A note on IA-endomorphisms of two-generated metabelian groups. **98a:20034**
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Delizia, Costantino Finitely generated soluble groups with a condition on infinite subsets. (Italian summary) **98b:20038a**
Gupta, Chander Kanta (*with* Timoshenko, E. I.) Automorphic and endomorphic reducibility and primitive endomorphisms of free metabelian groups. (English summary) **98g:20052**
Kovács, L. G. (*with* Newman, M. F.) Torsionfree varieties of metabelian groups. (English summary) **98f:20010**
Macedońska, Olga (*with* Tomaszewski, Witold) On existence of fixed points for automorphisms of order two. **98e:20046**
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Meinert, Holger Actions on 2-complexes and the homotopical invariant Σ^2 of a group. (English summary) **98g:20084**
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Oger, Francis Noncancellation and the number of generators. (English summary) **98j:20033**
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Lar'kina, O. M. On identities in the product of normal nilpotent subgroups. (Russian. Russian summary) **98d:20036**
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Dekimpe, Karel (*with* Malfait, Wim) Almost-Bieberbach groups with prime order holonomy. (English summary) **98a:20051**
Endimioni, Gérard On the locally finite p-groups in certain varieties of groups. **98j:20029**
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Macedońska, Olga (*with* Tomaszewski, Witold) On existence of fixed points for automorphisms of order two. **98e:20046**
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20F19 Generalizations of solvable and nilpotent groups

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Asar, Ali Osman Barely transitive locally nilpotent p-groups. **98a:20032**
Chernikov, N. S. Generalized solvable groups factorized by subgroups of finite special rank. (Russian. English and Russian summaries) **98k:20049**
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— (*with* de Giovanni, Francesco) Triple factorizations by locally supersolvable groups. (Russian. Russian summary) **98g:20055**
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Kovalenko, V. Ī. The structure of finite nondispersive groups each nonmetacyclic subgroup of which is normal. (Ukrainian. English and Ukrainian summaries) **98b:20054**
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— (*with* Sysak, Yaroslav P.) Locally soluble products of two minimax subgroups. **98j:20036**
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20F24 FC-groups and their generalizations

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Shin, Hyunyong A local conjugacy in locally finite CC-groups. (English summary) **98h:20052**
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20F28 Automorphism groups of groups [see also 20E36]

Catino, F. (*with* Miccoli, M. M.) A note on IA-endomorphisms of two-generated metabelian groups. **98a:20034**
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Krstić, Sava (*with* McCool, James) The non-finite presentability of $\mathrm{IA}(F_3)$ and $\mathrm{GL}_2(\mathbf{Z}[t, t^{-1}])$. **98h:20053**
Macedońska, Olga (*with* Tomaszewski, Witold) On existence of fixed points for automorphisms of order two. **98e:20046**
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Mohammadi Hassanabadi, A. (*with* Robinson, Derek J. S.; Wiegold, James) Virtually trivial automorphisms of finitely generated groups. (English and Persian summaries) **98j:20040**
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Rapinchuk, Andrei S. n-dimensional linear representations of Aut F_n, and more. **98k:20055**
Robinson, Derek J. S. *see* **Mohammadi Hassanabadi, A.; et al., 98h:20054** *and* **98j:20040**
Savushkina, A. G. On a group of conjugating automorphisms of a free group. (Russian. Russian summary) **98d:20038**
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Cao, You An Automorphisms of Borel subgroups over connected rings. (Chinese. English and Chinese summaries) **98h:20082**
Costantini, Mauro The lattice automorphisms of simple algebraic groups over $\overline{\mathbf{F}}_2$. (English summary) **98b:20068**
Droste, Manfred (*with* Göbel, Rüdiger) The automorphism groups of Hahn groups. **98f:20023**
Feighn, M. *see* **Bestvina, Mladen; et al., 98c:20045** *and* **98k:20034**
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Hegarty, Peter V. Autocommutator subgroups of finite groups. (English summary) **98g:20038**
Howlett, R. B. (*with* Rowley, P. J.; Taylor, D. E.) On outer automorphism groups of Coxeter groups. (English summary) **98j:20056**
Lyul'ko, A. N. Genetics of the stabilizer of the abelianization of the free product of groups. (Russian) **98g:20040**
Mühlherr, Bernhard Automorphisms of graph-universal Coxeter groups. **98m:20048**
Neshchadim, M. V. Free products of groups that do not have outer normal automorphisms. (Russian. Russian summary) **98c:20048**
Paulin, Frédéric Sur les automorphismes extérieurs des groupes hyperboliques. (English summary) [On outer automorphisms of hyperbolic groups] **98c:20070**
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Shumyatskiĭ, P. V. Groups and Lie algebras with a fixed-point-free four-group of automorphisms. **98b:17008**
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20F29 Representations of groups as automorphism groups of algebraic systems

Benyash-Krivets, V. V. (*with* Chernousov, V. I.) On varieties of two-dimensional representations of fundamental groups of surfaces. (Russian. English and Russian summaries) **98m:20042**
Brunner, A. M. (*with* Sidki, Said) On the automorphism group of the one-rooted binary tree. (English summary) **98i:20035**
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20F32 Geometric group theory [see also 05C25, 20Exx, 20Gxx]

Abujabal, Hamza A. S. (*with* El-Mosalamy, M.) Bipartite groups. (English and Turkish summaries)
Ballmann, W. (*with* Świątkowski, J.) On L^2-cohomology and property (T) for automorphism groups of polyhedral cell complexes. (English summary) **98m:20043**
Cannon, J. W. (*with* Floyd, William J.; Parry, Walter) Introductory notes on Richard Thompson's groups. **98g:20058**
Churkin, V. A. Wide ends of finitely-generated groups. (English summary) **98g:20059**
Conner, Gregory R. A class of finitely generated groups with irrational translation numbers. (English summary) **98h:20055**
Dicks, Warren (*with* Formanek, Edward) Automorphism subgroups of finite index in algebraic mapping class groups. (English summary) **98b:20057**
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Epstein, David B. A. (*with* Iano-Fletcher, Anthony R.; Zwick, Uri) Growth functions and automatic groups. (English summary) **98h:20056**
Floyd, William J. (*with* Parry, Walter) The growth of nonpositively curved triangles of groups. **98j:20042**
— *see also* **Cannon, J. W.; et al., 98g:20058**
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— On the combination theorem for negatively curved groups. (English summary) **98b:20058b**
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Grigorchuk, Rostislav (*with* de la Harpe, Pierre) On problems related to growth, entropy, and spectrum in group theory. (English summary) **98d:20039**
Guba, V. S. (*with* Sapir, Mark V.) The Dehn function and a regular set of normal forms for R. Thompson's group F. (English summary) **98d:20040**
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Kapovich, Ilya (*with* Short, Hamish) Greenberg's theorem for quasiconvex subgroups of word hyperbolic groups. (English summary) **98g:20060**
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Kharlampovich, O. (*with* Myasnikov, A. G.) Hyperbolic groups and free constructions. **98d:20041**
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— *see also* **Gitik, Rita; et al., 98e:20048**
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Niblo, Graham A. (*with* Roller, Martin A.) Groups acting on cubes and Kazhdan's property (T). (English summary) **98k:20058**
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— *see also* **Gitik, Rita; et al., 98e:20048**
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"On the combination theorem for negatively curved groups" Errata: "On the combination theorem for negatively curved groups" [Internat. J. Algebra Comput. **6** (1996), no. 6, 751–760; MR 98b:20058a] by R. Gitik. (English summary) **98b:20058c**

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20F34 Fundamental groups and their automorphisms [see also 57M05, 57Sxx, 22E40]

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20F36 Braid groups; Artin groups

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— (*with* Kuzucuoğlu, Mahmut) Non-simplicity of locally finite barely transitive groups. (English summary) **98h:20068**
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20F55 Coxeter groups [see also 22E40]

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Bremke, Kirsten On generalized cells in affine Weyl groups. (English summary) **98c:20077**
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du Cloux, Fokko The state of the art in the computation of Kazhdan-Lusztig polynomials. (English summary) **98m:20047**
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Fan, C. Kenneth (*with* Green, R. M.) Monomials and Temperley-Lieb algebras. (English summary) **98a:20037**
— (*with* Stembridge, John R.) Nilpotent orbits and commutative elements. (English summary) **98g:20067**
Fernando, Suren L. Reflection groups and a convolution theorem. (English summary) **98k:20065**
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20F60 Ordered groups [See mainly 06F15]

Droste, Manfred (*with* Göbel, Rüdiger) The automorphism groups of Hahn groups. **98f:20023**
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Chen, Yuanqian (*with* Conrad, Paul F.; Darnel, Michael R.) Finite-valued subgroups of lattice-ordered groups. **98a:06026**
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Kozhevnikov, P. A. On an independent infinite system of group identities. (Russian. Russian summary) **98h:20075**
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20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55.}

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Weyl, Hermann ★ The classical groups. (English summary) **98k:01049**

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20G05 Representation theory

Adamovich, A. M. (*with* Rybnikov, G. L.) Tilting modules for classical groups and Howe duality in positive characteristic. (English summary) **98f:20026**
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— Formule des traces sur les corps finis. [Trace formula over finite fields] **98k:20072**
Bernstein, Joseph (*with* Braverman, Alexander; Gaitsgory, Dennis) The Cohen-Macaulay property of the category of $(\mathfrak{g}, K)$-modules. (English summary) **98k:20073**
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Iranmanesh, A. Characters of the affine group in low dimensions. (English summary) **98j:20059**
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Kato, Shin-ichi Hecke algebras and quantum general linear groups. **98k:20076**
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Koike, Kazuhiko Principal specializations of the classical groups and q-analogs of the dimension formulas. **98f:20027**
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Michel, Jean Christian Marie *see* **Aubert, Anne-Marie; et al., 98a:20039** *and* **Broué, Michel, 98b:20077**
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Shoji, Toshiaki Unipotent characters of finite classical groups. **98b:20079**
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— *see also* **Curtis, Charles W., 98a:20040**
Soergel, Wolfgang Conjectures de Lusztig. (French summary) [Conjectures of Lusztig] **98f:20029**
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— Properties of unipotent elements in irreducible representations of classical groups with p-large highest weights. (Russian. English and Russian summaries) **98b:20067**
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— Polynomial identities for orbit numbers of general linear and unitary groups over finite fields. (English summary) **98i:20051**
— (*with* Janiszczak, I.; Knörr, R.) The number of regular semisimple classes of special linear and unitary groups. **98m:20063**
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Huo, Yuan-ji (*with* Wan, Zhe-xian) Lattices generated by orbits of subspaces under finite classical groups. (*see* **98e:05001**)
Ishibashi, Hiroyuki Two-element generation of the orthogonal groups over the prime field $F = \{0, 1\}$. (Japanese) (*see* **98d:00023**)
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Vasil'ev, A. V. Minimal permutation representations of finite simple exceptional groups of types G_2 and F_4. (Russian. Russian summary) **98d:20055**
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— *see also* **Huo, Yuan-ji, (98e:05001)**
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Zha, Jian Guo Homomorphisms between Chevalley groups of types C_n and G_2 over finite fields. (English summary) **98e:20055**

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Aubert, Anne-Marie (*with* Michel, Jean Christian Marie; Rouquier, Raphaël) Correspondance de Howe pour les groupes réductifs sur les corps finis. [Howe correspondence for reductive groups over finite fields] **98a:20039**
— Formule des traces sur les corps finis. [Trace formula over finite fields] **98k:20072**
Benson, David John (*with* Carlson, Jon F.; Rickard, Jeremy) Thick subcategories of the stable module category. (English summary) **98g:20021**
Broué, Michel (*with* Michel, Jean Christian Marie) Sur certains éléments réguliers des groupes de Weyl et les variétés de Deligne-Lusztig associées. [Some regular elements of Weyl groups and the associated Deligne-Lusztig varieties] **98h:20077**
Brozovic, Douglas P. (*with* Solomon, Ronald M.) On groups of hyperbolic length. (English summary) **98h:20022**
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Celler, Frank (*with* Leedham-Green, C. R.) Calculating the order of an invertible matrix. (English summary) **98g:20001**
Curtis, Charles W. (*with* Shoji, Toshiaki) A norm map for endomorphism algebras of Gelfand-Graev representations. (English summary) **98a:20040**
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Hiss, Gerhard (*with* Lübeck, Frank) The Brauer trees of the exceptional Chevalley groups of types F_4 and $^2E_6$. (English summary) **98k:20017**
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Kim, Dae San (*with* Park, Young Ho) Gauss sums for orthogonal groups over a finite field of characteristic two. **98j:11115**
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— Gauss sums for $\mathrm{U}(2n+1, q^2)$. (English summary) **98j:11116**
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Koshita, Hitoshi Quiver and relations for $\mathrm{SL}(2, p^n)$ in characteristic p with p odd. (English summary) **98m:20018**
Lee, In-Sok (*with* Park, Kyung-Hwan) Gauss sums for $G_2(q)$. **98g:11140**
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Lehrer, Gus I. *see* **Digne, F.; et al., 98i:20015**
Lenstra, H. W., Jr. (*with* Zieve, M.) A family of exceptional polynomials in characteristic three. (English summary) **98a:11174**
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Lusztig, George Notes on unipotent classes. **98k:20078**
Malle, Gunter Degrés relatifs des algèbres cyclotomiques associées aux groupes de réflexions complexes de dimension deux. [Relative degrees of cyclotomic algebras associated with two-dimensional complex reflection groups] **98h:20019**
Menezes, Alfred J. (*with* Wu, Yi-Hong) The discrete logarithm problem in $\mathrm{GL}(n, q)$. (English summary) **98j:11122**
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Niemeyer, Alice C. (*with* Praeger, Cheryl E.) Implementing a recognition algorithm for classical groups. (English summary) **98g:20002**
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Pillen, Cornelius Loewy series for principal series representations of finite Chevalley groups. **98a:20019**
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Rainbolt, Julianne G. The Gelfand-Graev representation of $\mathrm{U}(3, q)$. (English summary) **98b:20020**
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Rickard, Jeremy *see* **Benson, David John; et al., 98g:20021**
Rouquier, Raphaël Some examples of Rickard complexes. (English summary) **98e:20015**
— *see also* **Aubert, Anne-Marie; et al., 98a:20039**
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— *see also* **Curtis, Charles W., 98a:20040**
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Sukizaki, Hideki McKay numbers in intermediate groups of $\mathrm{GL}(n, q)$ and $\mathrm{SL}(n, q)$. (Japanese) (*see* **98k:00015**)
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20G45 Applications to physics; explicit representations

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Davies, B. L. *see* **Dirl, R.; et al., 98b:82081**; **98b:82082**; **98b:82083** *and* **98b:82084**
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— (*with* Payer, K.; Davies, B. L.) Symmetrized plane waves. III. Nonsymmorphic space groups. (English summary) **98b:82083**
— (*with* Payer, K.; Davies, B. L.) Symmetrized plane waves. IV. Symmetrized $\mathbf{P}m\bar{3}n$-plane waves. (English summary) **98b:82084**
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Scharf, Thomas (*with* Thibon, Jean-Yves; Wybourne, Brian G.) Generating functions for stable branching coefficients of $\mathrm{U}(n) \downarrow S_n$, $\mathrm{O}(n) \downarrow S_n$ and $\mathrm{O}(n-1) \downarrow S_n$. (English summary) **98i:81078**
Thibon, Jean-Yves *see* **Scharf, Thomas; et al., 98i:81078**
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20G99 None of the above, but in this section

Gromov, N. A. (*with* Moskalyuk, S. S.) Symplectic groups in Cayley-Klein spaces. (English summary) **98j:20067**
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Oehms, Sebastian Zelluläre Basen von symplektischen q-Schur-Algebren. [Cellular bases of symplectic q-Schur algebras] **98g:20076**
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98h:20012
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20Hxx Other groups of matrices [see also 15A30]

20H05 Unimodular groups, congruence subgroups [see also 11F06, 19B37, 22E40, 51F20]

Cangül, İsmail Naci Normal subgroups of the Hecke group $H(\sqrt{2})$. **98b:20076**
— About some normal subgroups of Hecke groups. (English and Turkish summaries) **98j:20070**
— (*with* Singerman, David) Normal subgroups of Hecke groups and regular maps. **98j:20071**
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Thompson, John G. Power maps and completions of free groups and of the modular group. **98a:20026**
Williams, Frank (*with* Wisner, Robert J.) Cohomology of certain congruence subgroups of the modular group. (English summary) **98j:11040**
Wisner, Robert J. *see* **Williams, Frank**, **98j:11040**

20H10 Fuchsian groups and their generalizations [see also 11F06, 22E40, 30F35, 32Nxx]

Cesaratto, E. The α-concentration of Procaccia of infinite words in finitely generated Fuchsian groups. (English summary) **98m:20064**
Chetiya, Buddha Prasad *see* **Dutta, Sanjay Kumar; et al.**, **98f:20032**
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Downs, M. L. N. Some enumerations of regular hypermaps with automorphism group isomorphic to $\mathrm{PSL}_2(q)$. **98c:20095**
Dutta, Sanjay Kumar (*with* Patra, Kuntala; Chetiya, Buddha Prasad) $\mathbb{Z}S$-metacyclic groups of automorphisms of compact Riemann surfaces. (English summary) **98f:20032**
Inoue, Katsumi[1] One and two generator subgroups of Möbius groups in several dimensions. (*see* **98e:00014**)
Işık, Ahmet *see* **Dıkıcı, Ramazan**
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Kononenko, Alexey Vladimir (*with* Yue, Chengbo) Cohomology and rigidity of Fuchsian groups. (English summary) **98j:20072**
Long, Darren D. (*with* Maclachlan, C.; Reid, Alan W.) Splitting groups of signature $(1;n)$. **98c:20096**
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Patra, Kuntala *see* **Dutta, Sanjay Kumar; et al.**, **98f:20032**
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Soma, Teruhiko Rigidity of quasi-Fuchsian subgroups under algebraic deformations. (Japanese) (*see* **98e:00014**)
Yue, Chengbo *see* **Kononenko, Alexey Vladimir**, **98j:20072**

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Anderson, James W. (*with* Maskit, Bernard) On the local connectivity of limit set of Kleinian groups. (English summary) **98a:30055**
— (*with* Canary, Richard D.; Culler, Marc; Shalen, Peter B.) Free Kleinian groups and volumes of hyperbolic 3-manifolds. **98c:57012**
— The limit set intersection theorem for finitely generated Kleinian groups. **98k:30056**
Arés Gastesi, Pablo Some results on Teichmüller spaces of Klein surfaces. **98c:30056**
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Bishop, Christopher J. Minkowski dimension and the Poincaré exponent. **98h:30061**
Bujalance, E. On compact Klein surfaces with a special automorphism group. (English summary) **98f:30041**
— (*with* Costa, Antonio F.) On symmetries of p-hyperelliptic Riemann surfaces. **98f:30042**
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Cai, Jin-Yi (*with* Fuchs, Wolfgang H.; Kozen, Dexter; Liu, Zi Cheng) Efficient average-case algorithms for the modular group. (English summary) (*see* **98h:68008**)
Canary, Richard D. *see* **Anderson, James W.; et al.**, **98c:57012**
Cangül, İsmail Naci Normal subgroups of the Hecke group $H(\sqrt{2})$. **98b:20076**
— About some normal subgroups of Hecke groups. (English and Turkish summaries) **98j:20070**
— (*with* Singerman, David) Normal subgroups of Hecke groups and regular maps. **98j:20071**
Costa, Antonio F. *see* **Porto Fereira da Silva, A. M.**, **98b:30045** *and* **Bujalance, E.**, **98f:30042**
Culler, Marc *see* **Anderson, James W.; et al.**, **98c:57012**
Do, Ilyong (*with* Hong, Sungbok) Myrberg-Agard density points and Schottky groups. **98c:30052**
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Georgelin, Yvon (*with* Wallet, Jean-Christophe) Group $\Gamma(2)$ and the fractional quantum Hall effect. (English summary) **98b:81292**
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Kamiya, Shigeyasu Parabolic elements of $\mathrm{U}(1,n;\mathbf{C})$. (English summary) **98j:22015**
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Matsuzaki, Katsuhiko Structural stability of Kleinian groups. **98a:30056**
McMullen, Curtis T. Complex earthquakes and Teichmüller theory. (English summary) **98i:32030**
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Natanzon, S. M. Real frames of complex algebraic curves, and Coxeter groups. (Russian) **98j:30057**
Neumann, Walter D. Kleinian groups generated by rotations. (English summary) **98g:30074**
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Porto Fereira da Silva, A. M. (*with* Costa, Antonio F.) On the automorphism group of the canonical double covering of bordered Klein surfaces with large automorphism group. **98b:30045**
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Sato, Hiroki Hausdorff dimension of the limit sets of classical Schottky groups. **98k:30062**
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Shirokov, N. A. Approximation on limit compacta of Kleinian groups. (Russian. English and Russian summaries) **98k:30063**
Singerman, David *see* **Cangül, İsmail Naci**, **98j:20071**
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Stratmann, Bernd The Hausdorff dimension of bounded geodesics on geometrically finite manifolds. (English summary) **98d:58106**
— A remark on Myrberg initial data for Kleinian groups. (English summary) **98k:58146**
Taniguchi, Masahiko Kleinian groups and the Carathéodory convergence. (Japanese) (*see* **98e:00014**)
Taylor, Edward C.[2] Geometric finiteness and the convergence of Kleinian groups. (English summary) **98k:30064**
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Yamamoto, Hiro-o Limit sets of certain Kleinian groups. (Japanese) (*see* **98e:00014**)
Yu, Zuguo (*with* Wang, Jian[1]; Ren, Fuyao) The conjugate classification and type criteria of Möbius transformations in higher dimensions. (English and Chinese summaries) **98d:51010**

20H15 Other geometric groups, including crystallographic groups [see also 51–XX, especially 51F15, and 82D25]

Baig, M. Shafique Decomposition of traceless tensors over crystallographic point groups. (English summary)
Beck, Uwe *see* **Kramer, Peter; et al.**, **98h:20089**
Ben-Abraham, Shelomo I. *see* **Kramer, Peter; et al.**, **98h:20089**
Burdina, V. I. Symmetry and super-symmetry group (symmetrizer) of the regular division of a three-dimensional sphere of revolution. (Russian) **98g:20077**
Davies, B. L. (*with* Dirl, R.) Space group structures: integrated software for IBM-compatible PCs. (English summary) (*see* **98k:82003**)
— (*with* Dirl, R.) Space group representations: integrated software for IBM-compatible PCs. (English summary) (*see* **98k:82003**)
— (*with* Dirl, R.; Goldsmith, Brendan) Canonical subgroup matrices for free abelian groups of finite rank: application to intersection and union subgroups. (English summary) **98g:20078**
— *see also* **Dirl, R.; et al.**, **98g:20079**
Dekimpe, Karel (*with* Malfait, Wim) Almost-Bieberbach groups with prime order holonomy. (English summary) **98a:20051**
Dirl, R. (*with* Zeiner, P.; Davies, B. L.; Janovec, V.) Coset decompositions of space groups: applications to domain structure analysis. (English summary) **98g:20079**
— *see also* **Davies, B. L.; et al.**, **98g:20078**; (**98k:82003**) *and* (**98k:82003**)
Eick, Bettina (*with* Gähler, Franz; Nickel, Werner) Computing maximal subgroups and Wyckoff positions of space groups. (English summary) **98g:20080**
Gähler, Franz *see* **Eick, Bettina; et al.**, **98g:20080**
Goldsmith, Brendan *see* **Davies, B. L.; et al.**, **98g:20078**
Jablan, Slavik V. Pawley multiple antisymmetry three-dimensional space groups $G_3^{l,p'}$. II. Hemisymmorphic and asymmorphic groups. (English summary) **98k:20085**
— Simple and multiple antisymmetry space groups derived from cubical P-symmetry groups. (English summary)
Janner, A. Elements of a multimetrical crystallography. (English summary) **98a:20052**

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Kramer, Peter (*with* Beck, Uwe; Ben-Abraham, Shelomo I.) Automorphisms and discrete fiber bundles. **98h:20089**
Krivovichev, Sergey On the uniformity of crystallographic orbits. (English summary)
Lungu, A. P. Methods for deriving middle groups of W-symmetry. (Russian. English, Russian and Moldavian summaries)
Maclachlan, C. Triangle subgroups of hyperbolic tetrahedral groups. (English summary) **98d:20056**
Malfait, Wim *see* **Dekimpe, Karel, 98a:20051**
Malle, Gunter Presentations for crystallographic complex reflection groups. (English summary) **98a:20053**
Nickel, Werner *see* **Eick, Bettina; et al., 98g:20080**
Palistrant, A. F. (*with* Zabolotnyi, P. A.; Zadorozhnyĭ, A. A.) Complete scheme of one-, two- and three-dimensional Mikheev homology groups. (English summary) **98c:20097**
— Three-dimensional plane-linear groups of hypercrystallographic P-symmetries and their multidimensional applications. (Russian. English, Russian and Moldavian summaries)
Plesken, Wilhelm Kristallographische Gruppen. [Crystallographic groups] **98f:20033**
Vince, Andrew Periodicity, quasiperiodicity, and Bieberbach's theorem on crystallographic groups. **98b:20077**
Wang, Jian[1] *see* **Yu, Zuguo, 98f:20034**
Yu, Zuguo (*with* Wang, Jian[1]) On the conjugate invariants and topology of Möbius group in higher dimensions. (English and Chinese summaries) **98f:20034**
Zabolotnyi, P. A. *see* **Palistrant, A. F.; et al., 98c:20097**
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Zamorzaev, A. M. Two-dimensional point groups of hypercrystallographic P-symmetries and their multidimensional applications. (Russian. English, Russian and Moldavian summaries)
— Two-dimensional linear groups of hypercrystallographic P-symmetries and their multidimensional applications. (Russian. English, Russian and Moldavian summaries) **98j:20073**
Zeiner, P. *see* **Dirl, R.; et al., 98g:20079**

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Chen, Jin-Quan (*with* Ping, Jia-Lun) Algebraic expressions for irreducible bases of icosahedral group. (English summary) **98a:20050**
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Delgado Friedrichs, Olaf (*with* Huson, Daniel H.) Orbifold triangulations and crystallographic groups. (English summary) **98k:52051**
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— (*with* Payer, K.; Davies, B. L.) Symmetrized plane waves. IV. Symmetrized $Pm\bar{3}n$-plane waves. (English summary) **98b:82084**
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Kramer, Peter (*with* Papadopolos, Zorka) Symmetry concepts for quasicrystals and noncommutative crystallography. (English summary) **98i:52030**
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— Theory of color symmetry for periodic and quasiperiodic crystals. (English summary) **98k:82189**
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Michel, Louis Bravais classes, Voronoĭ cells, Delone symbols. (English summary) **98m:52028**
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Novak, Igor Point symmetry groups and operators revisited. (English summary) **98g:81050**
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Leinen, Felix (*with* Puglisi, Orazio) Countable recognizability of primitive periodic finitary linear groups. **98b:20079**
Nebe, Gabriele Finite subgroups of $GL_{24}(\mathbf{Q})$. (English summary) **98b:20080**
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Wehrfritz, B. A. F. Free products of finitary skew linear groups. (English summary) **98a:20054**

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20H25 Other matrix groups over rings

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20H30 Other matrix groups over finite fields

Cooperman, Gene (*with* Finkelstein, Larry; Tselman, Michael; York, Bryant) Constructing permutation representations for matrix groups. (English summary) **98h:20090**
Finkelstein, Larry *see* **Cooperman, Gene; et al., 98h:20090**
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Kechagias, Nondas E. A note on $U_n \times U_m$ modular invariants. (English summary) **98c:13009**
Kim, Dae San Gauss sums for $\mathrm{O}^-(2n,q)$. **98b:11087**
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20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

Akita, Toshiyuki On the cohomology of Coxeter groups and their finite parabolic subgroups. II. (English summary) **98m:20066**
Bekka, Mohammed El Bachir (*with* Valette, Alain) Group cohomology, harmonic functions and the first L^2-Betti number. (English summary) **98e:20056**
Benson, David John (*with* Greenlees, J. P. C.) Commutative algebra for cohomology rings of virtual duality groups. (English summary) **98d:20057**
Bux, Kai-Uwe Finiteness properties of certain metabelian arithmetic groups in the function field case. **98f:20035**
Carlson, Jon F. (*with* Green, Edward L.[1]; Schneider, Gerhard J. A.) Computing Ext algebras for finite groups. (English summary) **98k:20086**
Cornick, Jonathan (*with* Kropholler, Peter H.) On complete resolutions. (English summary) **98k:20087**
Cremanns, Robert (*with* Otto, Friedrich) For groups the property of having finite derivation type is equivalent to the homological finiteness condition FP_3. (English summary) **98b:20081**
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Epstein, David B. A. (*with* Fujiwara, Koji) The second bounded cohomology of word-hyperbolic groups. **98k:20088**

Flannery, D. L. Cocyclic Hadamard matrices and Hadamard groups are equivalent. (English summary) **98f:20036**
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Grieder, Ralph The infinite order of the symplectic classes in the cohomology of the stable mapping class group. (English summary) **98m:20067**
Grigorchuk, Rostislav Bounded cohomology of group constructions. (Russian) **98f:20037**
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Igodt, Paul *see* **Dekimpe, Karel, 98a:20056**
Inasaridze, Kh. N. Non-abelian cohomology of groups. (English summary) **98g:20083**
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McGibbon, C. A. (*with* Steiner, Richard) Some questions about the first derived functor of the inverse limit. (English summary) **98e:20098**
Meinert, Holger The homological invariants for metabelian groups of finite Prüfer rank: a proof of the Σ^m-conjecture. (English summary) **98b:20082**
— Actions on 2-complexes and the homotopical invariant Σ^2 of a group. (English summary) **98g:20084**
Nucinkis, Brita E. A. An injective analogue to generalized Tate cohomology. (English summary) (*see* **98g:20004**)
Otto, Friedrich *see* **Cremanns, Robert, 98b:20081**
Paraschivescu, Andrei On a generalization of the double coset formula. **98g:20085**
Pham Anh Minh Proper singularities of extraspecial p-groups for the mod-p cohomology functor. **98h:20091**
Priddy, Stewart (*with* Xia, Yining) Cohomological invariants of mapping class groups. **98b:20083**
Rickard, Jeremy Idempotent modules in the stable category. (English summary) **98d:20058**
Schirokauer, Oliver A cohomological transfer map for profinite groups. (English summary) **98h:20092**
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Yoshiara, Satoshi The Borel-Tits property and the p-stubborn complex for simple groups. (Japanese. Japanese summary) (*see* **98k:00015**)

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— Cohomology and Euler characteristics of Coxeter groups. **98k:57004**
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Besser, Amnon On the Kolyvagin cup product. (English summary) **98b:11116**
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Bourn, D. (*with* Janelidze, George) Protomodularity, descent, and semidirect products. (English summary) **98m:18006**
Brady, Noel *see* **Bestvina, Mladen, 98i:20039**
Brunetti, Maurizio Morava K-theories and dihedral groups. (English summary) **98f:55004**
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Cegarra, A. M. *see* **Carrasco, P., 98a:55012**
Cohen, Daniel E. String rewriting and homology of monoids. (English summary) **98j:20084**
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Dranishnikov, A. N. On the virtual cohomological dimensions of Coxeter groups. (English summary) **98d:55001**
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Juan-Pineda, Daniel Cohomological nonvanishing for modules over discrete groups. (English summary) **98d:57004**
Leary, Ian J. (*with* Schuster, Björn) On the $\mathrm{GL}(V)$-module structure of $K(n)^*(BV)$. (English summary) **98e:55016**
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20J06 Cohomology of finite groups

Adem, Alejandro (*with* Karagueuzian, Dikran) Essential cohomology of finite groups. (English summary) **98f:20038**
— (*with* Milgram, R. James) The cohomology of the McLaughlin group and some associated groups. **98e:20057**
— Recent developments in the cohomology of finite groups. **98j:20077**
Carlson, Jon F. (*with* Peng, Chuang) Relative projectivity and ideals in cohomology rings. (English summary) **98g:20086**
Choi, Eunmi Cohomology of groups and transfer theorem. (English summary) **98h:20093**
Errokh, Mohamed (*with* Grazzini, Fulvio) Sur la cohomologie modulo 2 des groupes de Coxeter à trois générateurs. (English and French summaries) [On the modulo 2 cohomology of three-generator Coxeter groups] **98h:20094**
Grazzini, Fulvio *see* **Errokh, Mohamed, 98h:20094**
Green, David J. ★ Constructing projective resolutions for p-groups. **98h:20095**
— Chern classes and the extraspecial p-group of order p^5 and exponent p. (English summary) **98m:20068**
Inasaridze, Kh. N. Non-abelian cohomology with coefficients in crossed bimodules. (English summary) **98k:20089**
Karagueuzian, Dikran *see* **Adem, Alejandro, 98f:20038**
Lang, Serge ★ Topics in cohomology of groups. **98b:20084**
Milgram, R. James *see* **Adem, Alejandro, 98e:20057**
Peng, Chuang *see* **Carlson, Jon F., 98g:20086**
Phạm Anh Minh On a conjecture of Kahn for the Stiefel-Whitney classes of the regular representation. **98f:20039**
Sasaki, Hiroki The mod p cohomology algebras of finite groups with metacyclic Sylow p-subgroups. **98i:20054**
Smith, Stephen D. (*with* Umland, Kristin L.) Stability of cohomology via double-coset products and suborbit diagrams. (English summary) **98a:20057**
(Tate, John) *see* **Lang, Serge, 98b:20084**
Umland, Kristin L. *see* **Smith, Stephen D., 98a:20057**

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Bisson, Terrence P. (*with* Joyal, André) Q-rings and the homology of the symmetric groups. (English summary) **98e:55021**
Carlson, Jon F. Varieties and induction. (English summary) **98g:20022**
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Flannery, D. L. The finite irreducible linear 2-groups of degree 4. (English summary) **98b:20078**
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Leary, Ian J. On the integral cohomology of wreath products. (English summary) **98m:55014**
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Martin, Stuart (*with* Russell, Lee) On the ordinary quiver of the symmetric group over a field of characteristic 2. **98h:20015**
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— *see also* **Martino, John, 98i:55018**
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(Scheiderer, C.) *see* **Lochak, Pierre, 98j:20032**
Schneps, Leila *see* **Lochak, Pierre, 98j:20032**
Yoshiara, Satoshi Some homotopy equivalences for sporadic groups. (English summary) **98j:20015**

20J10 Groups arising as cohomology groups

Items with secondary classifications in 20J10

Masuoka, Akira Calculations of some groups of Hopf algebra extensions. **98i:16042**

20J99 None of the above, but in this section

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Salvetti, Mario (*with* Stumbo, Fabio) Artin groups associated to infinite Coxeter groups. (English summary) **98d:20043**
Stumbo, Fabio *see* **Salvetti, Mario, 98d:20043**
Yagita, Nobuaki Note on BP-theory for extensions of cyclic groups by elementary abelian p-groups. **98h:55008**

20Kxx Abelian groups

20K01 Finite abelian groups

Amin, Khalid The Hajós n-property for p-groups. (English summary)
Benson, Steve Students ask the darnedest things: a result in elementary group theory. **98d:20059**
Corrádi, Keresztély (*with* Szabó, Sándor) An axiomatic approach for the Hajós theorem. (English summary) **98e:20058**
Ericson, Thomas (*with* Simonis, Juriaan; Tarnanen, Hannu; Zinov′ev, V. A.) F-partitions of cyclic groups. (English summary) **98f:20040**
(Gao, W. D.) *see* **Errata: "Addition theorems and group rings"**
Geroldinger, Alfred (*with* Schneider, Rudolf) On minimal zero sequences with large cross number.
Mann, Avinoam Philip Hall's "rather curious" formula for abelian p-groups. (English summary) **98a:20058**
Schneider, Rudolf *see* **Geroldinger, Alfred**
Simonis, Juriaan *see* **Ericson, Thomas; et al., 98f:20040**
Szabó, Sándor (*with* Ward, Coburn) Factoring abelian groups and tiling binary spaces. (English summary)
— (*with* Ward, Coburn) Factoring elementary groups of prime cube order into subsets. (English summary) **98j:20078**
— *see also* **Corrádi, Keresztély, 98e:20058**
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"Addition theorems and group rings" Erratum: "Addition theorems and group rings" [J. Combin. Theory Ser. A **77** (1997), no. 1, 98–109; MR 97j:20053] by W. D. Gao.

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Aharoni, Ron (*with* Maritz, Milton; Meshulam, Roy) Fourier transform imitations. (English summary) **98g:20016**
Behravesh, Houshang The minimal degree of a faithful quasi-permutation representation of an abelian group. **98c:20011**
Bhowmik, Gautami (*with* Wu, Jie[1]) On the asymptotic behaviour of the number of subgroups of finite abelian groups. (English summary) **98i:11079**
Buchmann, Johannes (*with* Jacobson, Michael J., Jr.; Teske, Edlyn) On some computational problems in finite abelian groups. (English summary) **98a:11185**
De Felice, Clelia Completing codes by Hajós factorizations of groups. (English summary) (*see* **98f:00029**)
Jacobson, Michael J., Jr. *see* **Buchmann, Johannes; et al., 98a:11185**
Maritz, Milton *see* **Aharoni, Ron; et al., 98g:20016**
Meshulam, Roy *see* **Aharoni, Ron; et al., 98g:20016**
Nguyen Huong Lâm Hajós factorizations and completion of codes. (English summary) **98e:20060**
Teske, Edlyn *see* **Buchmann, Johannes; et al., 98a:11185**
Wu, Jie[1] *see* **Bhowmik, Gautami, 98i:11079**

20K05 Finitely generated groups

Items with secondary classifications in 20K05

O'Neill, John D. On infinite direct products of copies of a Dedekind domain. (English summary) **98m:13026**

20K10 Torsion groups, primary groups and generalized primary groups

Files, Steve T. (*with* Goldsmith, Brendan) Transitive and fully transitive groups. (English summary) **98g:20087**
Goldsmith, Brendan *see* **Files, Steve T., 98g:20087**
Hill, Paul (*with* West, Jane Kirchner) Subgroup transitivity in abelian groups. (English summary) **98j:20079**
Keef, Patrick Slenderness, completions, and duality for primary abelian groups. (English summary) **98b:20085**
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West, Jane Kirchner A $\diamondsuit$-characterization of some small totally projective groups. **98a:20060**
— *see also* **Hill, Paul, 98j:20079**

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Abraham, Ross Peder Normal p-subgroups of the automorphism group of an abelian p-group. (English summary) **98m:20069**
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20K12 Ulm sequences

Items with secondary classifications in 20K12

Bovdi, A. A. (*with* Patay, Zoltán) On the central units of a modular group algebra. (English summary) **98h:16048**
Patay, Zoltán *see* **Bovdi, A. A., 98h:16048**

20K15 Torsion free groups, finite rank

Faticoni, Theodore G. (*with* Schultz, Phillip) Direct decompositions of ACD groups with primary regulating index. **98a:20061**
Goeters, H. Patrick (*with* Vinsonhaler, Charles; Wickless, William) A generalization of quasi-pure injective torsion-free abelian groups of finite rank. **98a:20062**
— (*with* Ullery, William) Completely decomposable groups with prescribed invariants. **98g:20088**
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Müller, Edgar (*with* Mutzbauer, Otto) Schichtengleiche Gewichte und Butlergruppen. [Groups with equal layers and Butler groups] **98f:20041**
Mutzbauer, Otto *see* **Müller, Edgar, 98f:20041**
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Ullery, William *see* **Goeters, H. Patrick, 98g:20088**
Vinsonhaler, Charles *see* **Goeters, H. Patrick; et al., 98a:20062** *and* **Mader, Adolf, 98c:20099**
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Arnold, David M. (*with* Dugas, Manfred) Representation type of posets and finite rank Butler groups. **98m:16016**
Dugas, Manfred *see* **Arnold, David M., 98m:16016**
Faticoni, Theodore G. *see* **Albrecht, Ulrich F.; et al., 98a:20063**
Giovannitti, Anthony J. Rank one quotients of vector groups. **98b:20086**
Goeters, H. Patrick *see* **Albrecht, Ulrich F.; et al., 98a:20063**
Leopold, Christian Butler groups and Lord groups. (English summary) **98k:22018**
Shlapentokh, Alexandra The logic of pseudo-S-integers. (English summary) **98m:11137**
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20K20 Torsion free groups, infinite rank

Antonova, N. Yu. *see* **Sebel'din, A. M., 98b:20088**
Bican, Ladislav A characterization of B_2-groups. **98h:20096**
Dugas, Manfred (*with* Göbel, Rüdiger) Endomorphism rings of B_2-groups of infinite rank. (English summary) **98k:20090**
Eklof, Paul C. (*with* Shelah, Saharon) New nonfree Whitehead groups by coloring. (English summary) **98k:20091**
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Giovannitti, Anthony J. Rank one quotients of vector groups. **98b:20086**
Göbel, Rüdiger *see* **Dugas, Manfred, 98k:20090**
Sebel'din, A. M. Definability of separable torsion-free abelian groups by endomorphism semigroups. (Russian. Russian summary) **98b:20087**
— (*with* Antonova, N. Yu.) On the isomorphism of the group of homomorphisms of two torsion-free abelian groups for one of these groups. (Russian) **98b:20088**
Shelah, Saharon *see* **Eklof, Paul C., 98j:20080** *and* **98k:20091**

Items with secondary classifications in 20K20

Dugas, Manfred (*with* Göbel, Rüdiger) Classification of modules with two distinguished pure submodules and bounded quotients. (English summary) **98a:13018**
Göbel, Rüdiger *see* **Dugas, Manfred, 98a:13018**
Shelah, Saharon Existence of almost free abelian groups and reflection of stationary set. **98k:03103**

20K21 Mixed groups

Fomin, A. A. (*with* Wickless, William) Quotient divisible abelian groups. (English summary) **98c:20100**
Loth, Peter The duals of Warfield groups. (English summary) **98k:20092**
Wickless, William *see* **Fomin, A. A., 98c:20100**

Items with secondary classifications in 20K21

Albrecht, Ulrich F. Mixed abelian groups with Artinian quasi-endomorphism ring. **98j:20081**
Files, Steve T. The fully invariant subgroups of local Warfield groups. (English summary) **98b:20090**

20K25 Direct sums, direct products, etc.

Loth, Peter The duals of almost completely decomposable groups. (English summary) **98c:20101**
Misyakov, V. M. On the complete transitivity of reduced abelian groups. (Russian. Russian summary) **98b:20089**

Items with secondary classifications in 20K25

Files, Steve T. (*with* Goldsmith, Brendan) Transitive and fully transitive groups. (English summary) **98g:20087**
Goldsmith, Brendan *see* **Files, Steve T., 98g:20087**

20K27 Subgroups

Files, Steve T. The fully invariant subgroups of local Warfield groups. (English summary) **98b:20090**

20K30 Automorphisms, homomorphisms, endomorphisms, etc.

Abraham, Ross Peder Normal p-subgroups of the automorphism group of an abelian p-group. (English summary) **98m:20069**

Albrecht, Ulrich F. (*with* Goeters, H. Patrick; Faticoni, Theodore G.; Wickless, William) Subalgebras of rational matrix algebras. **98a:20063**
— Mixed abelian groups with Artinian quasi-endomorphism ring. **98j:20081**
Faticoni, Theodore G. *see* **Albrecht, Ulrich F.; et al., 98a:20063**
Goeters, H. Patrick *see* **Albrecht, Ulrich F.; et al., 98a:20063**
Hausen, Jutta (*with* Schultz, Phillip) The maximal normal p-subgroup of the automorphism group of an abelian p-group. (English summary) **98k:20093**
Schultz, Phillip *see* **Hausen, Jutta, 98k:20093**
Wickless, William *see* **Albrecht, Ulrich F.; et al., 98a:20063**

Items with secondary classifications in 20K30

Antonova, N. Yu. *see* **Sebel'din, A. M., 98b:20088**
Dugas, Manfred (*with* Göbel, Rüdiger) Endomorphism rings of B_2-groups of infinite rank. (English summary) **98k:20090**
Eklof, Paul C. (*with* Shelah, Saharon) The Kaplansky test problems for $\aleph_1$-separable groups. (English summary) **98j:20080**
Files, Steve T. The fully invariant subgroups of local Warfield groups. (English summary) **98b:20090**
— (*with* Goldsmith, Brendan) Transitive and fully transitive groups. (English summary) **98g:20087**
Göbel, Rüdiger *see* **Dugas, Manfred, 98k:20090**
Goldsmith, Brendan *see* **Files, Steve T., 98g:20087**
Hill, Paul (*with* West, Jane Kirchner) Subgroup transitivity in abelian groups. (English summary) **98j:20079**
Sebel'din, A. M. Definability of separable torsion-free abelian groups by endomorphism semigroups. (Russian. Russian summary) **98b:20087**
— (*with* Antonova, N. Yu.) On the isomorphism of the group of homomorphisms of two torsion-free abelian groups for one of these groups. (Russian) **98b:20088**
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West, Jane Kirchner *see* **Hill, Paul, 98j:20079**

20K35 Extensions

Gonçalves, Daciberg Lima (*with* Raphael, Deborah) The structure of $\mathrm{Ext}(G, \mathbf{Z})$ with G an abelian p-group and an application to co-Moore spaces. **98c:20102**
Raphael, Deborah *see* **Gonçalves, Daciberg Lima, 98c:20102**

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Goeters, H. Patrick (*with* Keef, Patrick) When must pure extensions of countable abelian groups necessarily split? (English summary) **98j:20082**
Keef, Patrick *see* **Goeters, H. Patrick, 98j:20082**

20K40 Homological and categorical methods

Alizade, R. (*with* Bilhan, G.; Pancar, Ali) On direct sums of proper classes. (English summary) **98m:20070**
Bilhan, G. *see* **Alizade, R.; et al., 98m:20070**
Goeters, H. Patrick (*with* Keef, Patrick) When must pure extensions of countable abelian groups necessarily split? (English summary) **98j:20082**
Keef, Patrick *see* **Goeters, H. Patrick, 98j:20082**
Khusainov, A. A. Sums of copies of acyclic spectra. (Russian)
Pancar, Ali *see* **Alizade, R.; et al., 98m:20070**

Items with secondary classifications in 20K40

Dimitrić, Radoslav M. A note on Kurepa's hypotheses in algebra. (English summary) **98c:04003**
Fomin, A. A. (*with* Wickless, William) Quotient divisible abelian groups. (English summary) **98c:20100**
Pancar, Ali Generation of proper classes of short exact sequences. (English summary) **98f:15002**
West, Jane Kirchner A $\diamondsuit$-characterization of some small totally projective groups. **98a:20060**
Wickless, William *see* **Fomin, A. A., 98c:20100**

20K45 Topological methods [see also 22A05, 22B05]

Protasov, I. V. Absolutely resolvable groups. (Russian. English and Ukrainian summaries) **98d:20060**
Tsarelunga, B. I. Some properties of the group lG. (Moldavian. English, Russian and Moldavian summaries)
Ursul, M. I. On a property of groups of type $G^{\#}$. (Russian. English and Moldavian summaries)

Items with secondary classifications in 20K45

Dimitrić, Radoslav M. A note on Kurepa's hypotheses in algebra. (English summary) **98c:04003**
Frič, Roman (*with* Zanolin, Fabio) Relatively coarse sequential convergence. (English summary) **98d:54006**
Garcia-Ferreira, Salvador On free p-compact groups. (English summary) **98k:22006**
Loth, Peter The duals of almost completely decomposable groups. (English summary) **98c:20101**
Protasov, I. V. Absolute decomposability of the group of rational numbers. (Russian. English and Ukrainian summaries) **98g:54089**
Zanolin, Fabio *see* **Frič, Roman, 98d:54006**

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Feigelstock, Shalom Additive groups of rings whose subrings are ideals. (English summary) **98b:20091**
— Additive groups of unequivocal rings. (English summary)
Meng, Jixiang (*with* Xu, Ming-Yao) Weakly 5-CI abelian groups. (English summary) **98f:20042**
Rätz, Jörg Orthogonally additive mappings on free inner product Z-modules. (English summary) **98i:20056**
Toffalori, Carlo Lifting elementary equivalence for free resolutions of abelian groups. (Italian summary) **98j:20083**
Xu, Ming-Yao *see* **Meng, Jixiang, 98f:20042**

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Eklof, Paul C. Set theory generated by abelian group theory. **98g:03113**
Hamidoune, Yahya Ould Subsets with small sums in abelian groups. I. The Vosper property. (English summary) **98d:05144**
Kharazishvili, A. B. On nonmeasurable subgroups of the real line. (English summary) **98d:28001**
Meng, Jixiang Isomorphisms of Cayley digraphs of infinite abelian groups. (English summary) **98b:05050**
Niewieczerzal, Dorota Distributively generated subrings of homogeneous maps. (*see* **98i:16002**)
Shelah, Saharon Universal in $(< \lambda)$-stable abelian group. (English summary) **98g:03092**
Stuber, Jürgen Superposition theorem proving for abelian groups represented as integer modules. (English summary) (*see* **98h:68011**)
Wehrung, Friedrich Monoids of intervals of ordered abelian groups. (English summary) **98e:06009**

20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05.}

20L15 Connections with topology

Items with secondary classifications in 20L15

Kock, Anders (*with* Moerdijk, Ieke) Spaces with local equivalence relations, and their monodromy. (English summary) **98c:18003**
Moerdijk, Ieke *see* **Kock, Anders, 98c:18003**

20L99 None of the above, but in this section

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Celakoski, N. *see* **Čupona, Ĝ., 98d:08010**
Čupona, Ĝ. (*with* Celakoski, N.) Free objects in some varieties of groupoids. (English and Macedonian summaries) **98d:08010**
Muhly, Paul S. (*with* Solel, Baruch) Representations of triangular subalgebras of groupoid C^*-algebras. (English summary) **98a:46079**
Solel, Baruch *see* **Muhly, Paul S., 98a:46079**

20Mxx Semigroups

Howie, John M. ★ Fundamentals of semigroup theory. **98e:20059**

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Semigroups, formal languages and computer systems ★ Hangun, keishiki gengo to keisanki shisutemu. [Semigroups, formal languages and computer systems] **98d:00023**

20M05 Free semigroups, generators and relations, word problems

Almeida, Jorge (*with* Weil, Pascal) Free profinite $\mathscr{R}$-trivial monoids. (English summary) **98i:20057**
Campbell, Colin M. (*with* Robertson, Edmund F.; Ruškuc, N.; Thomas, Richard M.) Presentations for subsemigroups—applications to ideals of semigroups. (English summary) **98m:20071**
Choffrut, Christian (*with* Harju, Tero; Karhumäki, Juhani) A note on decidability questions on presentations of word semigroups. (English summary) **98h:20097**
Cohen, Daniel E. String rewriting and homology of monoids. (English summary) **98j:20084**
Debornoy, Patrick Groups with a complemented presentation. (English summary) **98a:20064**
Ehrenfeucht, Andrzej (*with* Harju, Tero; Rozenberg, Grzegorz) Invariants of inversive 2-structures on groups of labels. (English summary) **98g:20089**
Harju, Tero (*with* Karhumäki, Juhani; Plandowski, Wojciech) Compactness of systems of equations in semigroups. (English summary) **98g:20090**
— *see also* **Ehrenfeucht, Andrzej; et al., 98g:20089** *and* **Choffrut, Christian; et al., 98h:20097**
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Karhumäki, Juhani (*with* Plandowski, Wojciech) On the size of independent systems of equations in semigroups. **98b:20092**
— *see also* **Harju, Tero; et al., 98g:20090** *and* **Choffrut, Christian; et al., 98h:20097**
Kečkić, Jovan Some remarks on possible generalized inverses in semigroups. (English summary) **98h:20098**
Kilibarda, Vesna On the algebra of semigroup diagrams. (English summary) **98j:20085**
Länger, Helmut Free subsemigroups of free semigroups. (English summary) (*see* **98g:00020**)

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Pirillo, Giuseppe A proof of Shirshov's theorem. (English summary) **98a:20065**
— On semigroups having the ω-iteration property. (English summary)
Plandowski, Wojciech *see* **Karhumäki, Juhani, 98b:20092** *and* **Harju, Tero; et al., 98g:20090**
Robertson, Edmund F. (*with* Ruškuc, N.; Wiegold, James) Generators and relations of direct products of semigroups. (English summary) **98j:20086**
— *see also* **Campbell, Colin M.; et al., 98m:20071**
Rosales, J. C. On symmetric numerical semigroups. **98h:20099**
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Rupert, C. P. Slightly commutative Kleene semigroups. (English summary) **98e:20061**
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Shen, Chuan Long (*with* Huang, Yun Bao) Further remarks on a conjecture about powers of C^∞-words. (Chinese. English and Chinese summaries)
Shoji, Kunitaka (*with* Yamaoka, Masasi) Presentations of semigroups and embeddings in inverse semigroups. (*see* **98d:00023**)
Silva, Pedro V. Conjugacy and transposition for inverse monoid presentations. (English summary) **98b:20093**
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Wu, Jin Zhao Quantitative properties of Green equivalences on special monoids. (English summary) **98a:20066**
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Items with secondary classifications in 20M05

Abdulrab, H. *see* **Makanin, G. S.; et al.**, (**98a:68005**)
Auinger, Karl (*with* Polák, Libor) A semidirect product for locally inverse semigroups. (English summary) **98j:20089**
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Blanchet-Sadri, F. On semidirect and two-sided semidirect products of finite $\mathcal{J}$-trivial monoids. (English and French summaries) **98b:20094**
Briales, E. (*with* Campillo, Antonio; Marijuán López, Carlos; Pisón, P.) Minimal systems of generators for ideals of semigroups. (English summary) **98k:20105**
Calbrix, Hugues La théorie monadique du second ordre du monoïde inversif libre est indécidable. (English and French summaries) [The second-order monadic theory of the free inverse monoid is undecidable] **98j:03060**
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— (*with* Guerra, Leucio) Generalized rational relations and their logical definability. (English summary) (*see* **98i:68007**)
Clerbout, Mireille (*with* Latteux, Michel; Roos, Yves) Semi-commutations. (*see* **98i:68001**)
Cremanns, Robert (*with* Otto, Friedrich) For groups the property of having finite derivation type is equivalent to the homological finiteness condition FP_3. (English summary) **98b:20081**
Duchamp, Gérard (*with* Krob, Daniel) Combinatorics in trace monoids. II. (*see* **98i:68001**)
Durnev, V. G. Studying algorithmic problems for free semi-groups and groups. (English summary) (*see* **98i:68009**)
Garel, E. Séparateurs dans les mots infinis engendrés par morphismes. (English and French summaries) [Separators in infinite words generated by morphisms] **98g:68132**
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— (*with* Kortelainen, Juha) On the system of word equations $x_1^i x_2^i \cdots x_m^i = y_1^i y_2^i \cdots y_n^i$ $(i = 1, 2, \cdots)$ in a free monoid. (English summary) **98f:68222**
Harju, Tero (*with* Karhumäki, Juhani) Morphisms. **98k:68102**
Jones, Peter R. E-free objects and e-locality for completely regular semigroups. (English summary) **98b:20104**
— (*with* Trotter, Peter G.) Semidirect products of regular semigroups. (English summary) **98b:20105**
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(Lyndon, Roger) *see* **Lothaire, M., 98g:68134**
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Madlener, Klaus (*with* Otto, Friedrich) Some undecidability results for finitely generated Thue congruences on a two-letter alphabet. (English summary) **98j:03054**
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Ruškuc, N. On large subsemigroups and finiteness conditions of semigroups. **98k:20106**
Shur, A. M. Overlap-free words and Thue-Morse sequences. **98a:68155**
Stein, Sherman K. The combinatorial degrees of proofs and equations. (English summary) **98a:03089**
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— *see also* **Jones, Peter R., 98b:20105**
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Umar, Abdullahi Some remarks about Fibonacci groups and semigroups.
Varricchio, Stefano *see* **Pirillo, Giuseppe, 98f:05018**
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Wen, Zhi Ying Singular words, invertible substitutions and local isomorphisms. **98g:11027**
Yamamura, Akihiro HNN extensions of inverse semigroups and applications. (English summary) **98m:20079**
Yu, Bing Jun Absolutely elementary biordered languages. (English summary) **98h:68145**
Yū, Shih Shêng A characterization of local regular languages. (English summary) **98m:68163**
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20M07 Varieties of semigroups

Antonippillai, Anne Subsemigroups of bands of abelian groups. **98d:20061**
Auinger, Karl (*with* Hall, T. E.; Reilly, Norman R.; Zhang, Shu Hua[1]) Congruences on the lattice of pseudovarieties of finite semigroups. (English summary) **98h:20100**
Blanchet-Sadri, F. On semidirect and two-sided semidirect products of finite $\mathcal{J}$-trivial monoids. (English and French summaries) **98b:20094**
— Equations on semidirect products of commutative semigroups. (English summary) **98d:20062**
Cowan, David F. (*with* Wismath, S. L.) Unary iterative hyperidentities for semigroups and inverse semigroups. (English summary) **98d:20063**
Demlová, M. (*with* Koubek, V.) Subdirectly dominated semigroup varieties. (English summary) **98k:20094**
Fernandes, Vitor H. Semigroups of order preserving mappings on a finite chain: a new class of divisors. (English summary) **98b:20095**
Hall, T. E. (*with* Kublanovskii, S. I.; Margolis, Stuart W.; Sapir, Mark V.; Trotter, Peter G.) Algorithmic problems for finite groups and finite 0-simple semigroups. (English summary) **98h:20101**
— *see also* **Auinger, Karl; et al., 98h:20100**
Jiang, Zhonghao Bivarieties of orthodox semigroups generated by generalized Mal'cev products. **98d:20064**
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Larionov, N. B. Commutative and idempotent semigroup varieties that possess the conditional amalgamation property. (Russian) **98c:20105**
Margolis, Stuart W. (*with* Sapir, Mark V.; Weil, Pascal) Irreducibility of certain pseudovarieties. (English and French summaries) **98m:20072**
— *see also* **Hall, T. E.; et al., 98h:20101**
Reilly, Norman R. (*with* Zhang, Shu Hua[1]) Complete endomorphisms of the lattice of pseudovarieties of finite semigroups. (English summary) **98b:20096**
— (*with* Zhang, Shu Hua[1]) Commutativity of operators on the lattice of existence varieties. (English summary) **98c:20106**
— *see also* **Auinger, Karl; et al., 98h:20100**
Sapir, Mark V. *see* **Hall, T. E.; et al., 98h:20101** *and* **Margolis, Stuart W.; et al., 98m:20072**
Schweigert, D. (*with* Wismath, S. L.) Derived varieties of semigroups and groupoids. (English summary) **98k:20095**
Trotter, Peter G. e-varieties of regular semigroups. (English summary) **98k:20096**
— (*with* Weil, Pascal) The lattice of pseudovarieties of idempotent semigroups and a non-regular analogue. (English summary) **98k:20097**
— *see also* **Hall, T. E.; et al., 98h:20101**
Volkov, Mikhail V. Young diagrams and the structure of the lattice of overcommutative semigroup varieties. **98k:20098**
— Covers in the lattices of semigroup varieties and pseudovarieties. (English summary) **98j:20087**
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Wismath, S. L. *see* **Cowan, David F., 98d:20063** *and* **Schweigert, D., 98k:20095**
Yang, Haixuan Orthogroups in which all subgroups are abelian. (Chinese. English and Chinese summaries)
Zhang, Shu Hua[1] *see* **Reilly, Norman R., 98b:20096**; **98c:20106** *and* **Auinger, Karl; et al., 98h:20100**
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Almeida, Jorge (*with* Weil, Pascal) Free profinite $\mathcal{R}$-trivial monoids. (English summary) **98i:20057**
Auinger, Karl (*with* Polák, Libor) A semidirect product for locally inverse semigroups. (English summary) **98j:20089**
Baader, Franz (*with* Nutt, Werner) Combination problems for commutative/monoidal theories or how algebra can help in equational unification. (English summary) **98j:08007**

Bogdanović, Stojan (*with* Ćirić, Miroslav; Novikov, B. V.) Bands of left Archimedean semigroups. (English summary) **98m:20073**
Ćirić, Miroslav *see* **Bogdanović, Stojan; et al., 98m:20073**
Harju, Tero (*with* Karhumäki, Juhani; Plandowski, Wojciech) Compactness of systems of equations in semigroups. (English summary) **98g:20090**
Jones, Peter R. (*with* Trotter, Peter G.) Semidirect products of regular semigroups. (English summary) **98b:20105**
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Nutt, Werner *see* **Baader, Franz, 98j:08007**
Plandowski, Wojciech *see* **Harju, Tero; et al., 98g:20090**
Polák, Libor *see* **Auinger, Karl, 98j:20089**
Trotter, Peter G. *see* **Jones, Peter R., 98b:20105**
Weil, Pascal *see* **Almeida, Jorge, 98i:20057**

20M10 General structure theory

Beidar, K. I. (*with* Fong, Yuen; Knauer, Ulrich; Mikhalëv, A. V.; Shum, Kar Ping) Semigroups with generalized polynomial identities. (English summary) **98d:20065**
Billhardt, Bernd Extensions of semilattices by left type-A semigroups. **98d:20066**
Bogdanović, Stojan (*with* Ćirić, Miroslav; Novikov, B. V.) Bands of left Archimedean semigroups. (English summary) **98m:20073**
Cao, Cong *see* **Huang, Tian Lin, 98d:20068**
Ćirić, Miroslav *see* **Bogdanović, Stojan; et al., 98m:20073**
Dumesnil, Jill A. On m-semigroups. (English summary) **98b:20098**
Edwards, P. M. On joins with group congruences. (English summary) **98a:20067**
Fong, Yuen *see* **Beidar, K. I.; et al., 98d:20065**
Galbiati, Jolanda Laura Some semilattices of semigroups each having one idempotent. (English summary) **98d:20067**
Guo, Xiao Jiang The structure of type σ semigroups. (Chinese. English and Chinese summaries) **98e:20062**
— The structure of PI-strong rpp semigroups. (Chinese) **98b:20099**
Gutan, Cornélia Un théorème de Shirshov et l'indice de permutabilité pour les semigroupes. [A theorem of Shirshov and the permutability index for semigroups] **98i:20058**
— Sur les semi-groupes dont les congruences à gauche forment une chaîne. (French summary) [Semigroups whose left congruences form a chain] (*see* **98a:00009**)
— Éléments amplificateurs dans les semigroupes. [Expanding elements in semigroups] **98i:20059**
Higgins, Peter M. Ramsey's theorem in algebraic semigroups. **98b:20100**
Huang, Tian Lin (*with* Cao, Cong) The classification of EC-semigroups. (Chinese. English and Chinese summaries) **98d:20068**
Knauer, Ulrich *see* **Beidar, K. I.; et al., 98d:20065**
Lesokhin, M. M. (*with* Snetkov, O. A.) SH1-residual finiteness of semigroups. (Russian) **98c:20107**
Li, Bao *see* **Zhang, Guo Feng[1]; et al., 98d:20069**
Li, Zhuo (*with* Renner, Lex E.) The lattice of $\mathcal{J}$-classes of $(\mathcal{J}, \sigma)$-irreducible monoids. (English summary) **98b:20101**
Mikhalëv, A. V. *see* **Beidar, K. I.; et al., 98d:20065**
Novikov, B. V. *see* **Bogdanović, Stojan; et al., 98m:20073**
Protić, Petar V. A note on right seminormal band of right simple semigroups. (English summary) (*see* **98b:00030**)
— Bands of nil-extensions of right simple semigroups. (English summary)
Ren, Xue Ming (*with* Shum, Kar Ping) Green's star relations on completely Archimedean semigroups. (English summary) **98h:20102**
— *see also* **Shum, Kar Ping, 98c:20109**
Renner, Lex E. *see* **Li, Zhuo, 98b:20101**
Sezinando, H. On Rhodes expansions of bands. (English summary) **98c:20108**
Shum, Kar Ping (*with* Ren, Xue Ming) Completely Archimedean semigroups. (English summary) **98c:20109**
— *see also* **Beidar, K. I.; et al., 98d:20065** *and* **Ren, Xue Ming, 98h:20102**
Snetkov, O. A. *see* **Lesokhin, M. M., 98c:20107**
Szép, Jenő On coded structures. VII. (English summary) **98c:20110**
Wang, Cai Fen *see* **Zhou, Lin Fang**
Warne, R. J. Bicyclic extensions. **98h:20103**
Zhang, Guo Feng[1] (*with* Zhou, Lin Fang; Li, Bao) Extremely right complete semigroups and their structure. (Chinese. English and Chinese summaries) **98d:20069**
Zheng, Heng Wu Group congruences on an E-inversive semigroup. (English summary) **98m:20074**
Zhou, Lin Fang (*with* Wang, Cai Fen) Characterizations of chain conditions on congruence lattices of semigroups. (Chinese. English and Chinese summaries)
— *see also* **Zhang, Guo Feng[1]; et al., 98d:20069**

Items with secondary classifications in 20M10

Auinger, Karl The free pseudo-semilattice on a set. (English summary) **98m:08016**

20M11 Radical theory

Items with secondary classifications in 20M11

Okniński, Jan Graded rings—an approach via semigroups of matrices. **98m:16047**

20M12 Ideal theory

Abrhan, Imrich On minimal ideals in semigroups with respect to their subsets. I. (English summary) **98c:20111**
Hirano, Yasuyuki On right π-duo semigroups and rings. (English summary) **98e:20063**
Jun, Young Bae (*with* Lajos, Sándor) Fuzzy (1, 2)-ideals in semigroups. (English summary)
— *see also* **Lajos, Sándor**
Kehayopulu, Niovi (*with* Lajos, Sándor; Lepouras, George) A note on bi- and quasi-ideals of semigroups, ordered semigroups. (English summary)
Kilp, Mati (*with* Knauer, Ulrich; Mikhalëv, A. V.) On monoids in which right ideals are generators. (English summary) (*see* **98h:20003**)
Knauer, Ulrich *see* **Kilp, Mati; et al., (98h:20003)**
Kumbhojkar, H. V. On prime fuzzy ideals of a semigroup. (English summary) (*see* **98h:00035**)
Kuroki, Nobuaki Rough ideals in semigroups. (English summary) **98i:20060**
Lajos, Sándor (*with* Jun, Young Bae) On fuzzy (1, 2)-ideals in semigroups. II. (English summary)
— *see also* **Jun, Young Bae** *and* **Kehayopulu, Niovi; et al.**
Lepouras, George *see* **Kehayopulu, Niovi; et al.**
Mashevitzky, G. On the finite basis problem for left hereditary systems of semigroup identities. (English summary) **98k:20099**
Matsuda, Ryûki Note on questions of Anderson's. (*see* **98d:00023**)
Mikhalëv, A. V. *see* **Kilp, Mati; et al., (98h:20003)**
Protasov, I. V. Ideals and free pairs in the semigroup $\beta\mathbf{Z}$. (Russian. English and Ukrainian summaries) **98j:20088**
Satko, Ladislav On totally SLA-simple semigroups. (English summary)
Shen, Ji Zhong[1] Ideals and minimal ideals in L-semigroup. (English summary)

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Campbell, Colin M. (*with* Robertson, Edmund F.; Ruškuc, N.; Thomas, Richard M.) Presentations for subsemigroups—applications to ideals of semigroups. (English summary) **98m:20071**
Johnson, David H. (*with* Queen, Clifford S.) Genus characters and the arithmetic of commutative monoids. (English summary) **98f:11115**
Kehayopulu, Niovi Remarks on ordered semigroups, semigroups. (English summary) **98b:06023**
Magill, Kenneth D., Jr. Largest proper ideals of transformation semigroups. **98a:20072**
Queen, Clifford S. *see* **Johnson, David H., 98f:11115**
Robertson, Edmund F. *see* **Campbell, Colin M.; et al., 98m:20071**
Ruškuc, N. On large subsemigroups and finiteness conditions of semigroups. **98k:20106**
— *see also* **Campbell, Colin M.; et al., 98m:20071**
Thomas, Richard M. *see* **Campbell, Colin M.; et al., 98m:20071**
Wu, Ming Fen *see* **Xie, Xiang Yun, 98b:06022**
Xie, Xiang Yun (*with* Wu, Ming Fen) On quasi-prime, weakly quasi-prime left ideals in ordered semigroups. (English summary) **98b:06022**

20M14 Commutative semigroups

D'Anna, Marco Type sequences of numerical semigroups. **98k:20100**
Geroldinger, Alfred On the structure and arithmetic of finitely primary monoids. **98b:20102**
Grillet, Pierre Antoine Computing finite commutative semigroups. (English summary) **98g:20091**
Halter-Koch, Franz Valuation methods, defining systems, and approximation theorems. **98g:20092**
Huang, Wenchao Matrices which belong to an idempotent in a sandwich semigroup of circulant Boolean matrices. (English summary) **98g:20093**
Kanemitsu, Mitsuo (*with* Matsuda, Ryûki) Remarks on seminormal oversemigroups. (Japanese) (*see* **98d:00023**)
— *see also* **Matsuda, Ryûki, 98f:20043**
Koppenhagen, Ulla (*with* Mayr, Ernst W.) The complexity of the coverability, the containment, and the equivalence problems for commutative semigroups. (English summary) **98m:20075**
Makanjuola, S. O. (*with* Umar, Abdullahi) On a certain subsemigroup of the bicyclic semigroup. **98a:20068**
Matsuda, Ryûki (*with* Kanemitsu, Mitsuo) On seminormal semigroups. (English summary) **98f:20043**
— On some properties between rings and semigroups. **98k:20101**
— The Krull-Akizuki theorem for semigroups.
— *see also* **Kanemitsu, Mitsuo, (98d:00023)**
Mayr, Ernst W. *see* **Koppenhagen, Ulla, 98m:20075**
Qi, Zhen Kai *see* **Zheng, Bao Dong**
Rosales, J. C. On presentations of subsemigroups of $\mathbf{N}^n$. (English summary) **98h:20104**
Tian, Zhen Ji Notes on a theorem of Shevrin. (Chinese. English and Chinese summaries)
Umar, Abdullahi *see* **Makanjuola, S. O., 98a:20068**
Zheng, Bao Dong (*with* Qi, Zhen Kai) Primary decompositions of commutative monoids. (Chinese. English and Chinese summaries)

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Anderson, James Andrew The structure of the tensor product of commutative regular semigroups generated by posets of groups. (English summary) **98d:20071**
Antonippillai, Anne Subsemigroups of bands of abelian groups. **98d:20061**
Bianchet-Sadri, F. Equations on semidirect products of commutative semigroups. (English summary) **98d:20062**
Briales, E. (*with* Campillo, Antonio; Marijuán López, Carlos; Pisón, P.) Minimal systems of generators for ideals of semigroups. (English summary) **98k:20105**
Campillo, Antonio *see* **Briales, E.; et al., 98k:20105**
Chapman, Scott T. (*with* Geroldinger, Alfred) Krull domains and monoids, their sets of lengths, and associated combinatorial problems. **98g:13017**
Geroldinger, Alfred The catenary degree and tameness of factorizations in weakly Krull domains. **98i:13037**
— Chains of factorizations in orders of global fields. **98f:11120**
— Chains of factorizations and sets of lengths. **98e:13019**
— *see also* **Chapman, Scott T., 98g:13017**
Halter-Koch, Franz Finitely generated monoids, finitely primary monoids, and factorization properties of integral domains. **98h:13003**
Harinath, K. S. Some results on idempotent-existence in semigroups. **98h:20109**
Ignat'eva, I. V. SH-approximation of semigroups by finite characters. (Russian) **98b:20110**

Karhumäki, Juhani (*with* Plandowski, Wojciech) On the size of independent systems of equations in semigroups. **98b:20092**
Larionov, N. B. Commutative and idempotent semigroup varieties that possess the conditional amalgamation property. (Russian) **98c:20105**
Marijuán López, Carlos *see* **Briales, E.; et al., 98k:20105**
Pisón, P. *see* **Briales, E.; et al., 98k:20105**
Plandowski, Wojciech *see* **Karhumäki, Juhani, 98b:20092**
Wehrung, Friedrich Tensor products of structures with interpolation. (English summary) **98e:06010**

20M15 Mappings of semigroups

Faĭziev, Valeriĭ A. Pseudocharacters on free semigroups invariant with respect to their automorphism groups. (English summary) **98d:20070**
Gong, Ming-Peng Semigroups defined by generalized Schur functions. (English summary) **98c:20112**
Kari, Lila (*with* Thierrin, Gabriel) Morphisms and associated congruences. (English summary) **98k:20102**
Schwachhöfer, Martin (*with* Stroppel, Markus) Isomorphisms of linear semigroups. (English summary) **98c:20113**
Stroppel, Markus *see* **Schwachhöfer, Martin, 98c:20113**
Thierrin, Gabriel *see* **Kari, Lila, 98k:20102**

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Fernandes, Vitor H. Semigroups of order preserving mappings on a finite chain: a new class of divisors. (English summary) **98b:20095**
Solomon, Andrew Catalan monoids, monoids of local endomorphisms, and their presentations. (English summary) **98c:20104**

20M17 Regular semigroups

Almeida Santos, M. H. *see* **Blyth, T. S., 98k:20103**
Anderson, James Andrew The structure of the tensor product of commutative regular semigroups generated by posets of groups. (English summary) **98d:20071**
Auinger, Karl (*with* Polák, Libor) A semidirect product for locally inverse semigroups. (English summary) **98j:20089**
Blyth, T. S. (*with* Mendes Martins, Paula) On associate subgroups of regular semigroups. (English summary) **98f:20044**
— (*with* Almeida Santos, M. H.) On quasi-orthodox semigroups with inverse transversals. (English summary) **98k:20103**
Bonzini, Celestina (*with* Cherubini, Alessandra) A family of permutable completely regular semigroups. (English summary) **98m:20076**
Chae, Younki (*with* Lee, Sang Youl; Park, Chan-Young) A characterization of *-congruences on a regular *-semigroup.
Chen, Zhuo Rong The structure of multiplicative semigroups of quotient rings of principal ideal domains. (Chinese. English and Chinese summaries)
Cherubini, Alessandra *see* **Bonzini, Celestina, 98m:20076**
Das, Pratyayananda Fuzzy regular and inverse subsemigroups. (English summary)
Easdown, David (*with* Gould, Victoria) Cancellative orders. (English summary) **98h:20105**
Fountain, John B. Maximal orders in semigroups. (English summary) **98m:20077**
Galbiati, Jolanda Laura A characterization of $\mathscr{R}$, $\mathscr{L}$, $\mathscr{J}$, $\mathscr{D}$, $\mathscr{K}$-trivial quasi-regular semigroups.
Gomes, Gracinda M. S. (*with* Szendrei, Mária B.) Idempotent pure extensions by inverse semigroups via quivers. (English summary) **98k:20104**
Gould, Victoria *see* **Easdown, David, 98h:20105**
Guo, Wei Qi *see* **Ren, Xue Ming; et al.**
Guo, Yu Qi *see* **Sen, Mridul Kanti; et al.**
He, Wan Sheng *see* **Qiao, Zhan Ke**
He, Yong^2 *see* **Zhang, Mou-Cheng, 98d:20072**
Hickey, J. B. (*with* Lawson, M. V.) Unit regular monoids. (English summary) **98b:20103**
Jones, Peter R. E-free objects and e-locality for completely regular semigroups. (English summary) **98b:20104**
— (*with* Trotter, Peter G.) Semidirect products of regular semigroups. (English summary) **98b:20105**
Lawson, M. V. *see* **Hickey, J. B., 98b:20103**
Lee, Sang Youl *see* **Chae, Younki; et al.**
Li, Yong Hua^2 *see* **Zhang, Mou-Cheng, 98c:20114**
Liu, Yao Jun *see* **Zhang, Shan Mei**
Mendes Martins, Paula *see* **Blyth, T. S., 98f:20044**
Park, Chan-Young *see* **Chae, Younki; et al.**
Pennell, Edwin A. (*with* Putcha, Mohan S.; Renner, Lex E.) Analogue of the Bruhat-Chevalley order for reductive monoids. **98j:20090**
Petrich, Mario A special sublattice of the congruence lattice of a regular semigroup. (English summary) **98g:20094**
Piochi, Brunetto Quasi-abelian and quasi-solvable regular semigroups. (English summary) **98i:20061**
Polák, Libor *see* **Auinger, Karl, 98j:20089**
Putcha, Mohan S. *see* **Pennell, Edwin A.; et al., 98j:20090**
Qiao, Zhan Ke π-regular union decompositions of several kinds of π-regular semigroups. (Chinese. English and Chinese summaries) **98j:20091**
— (*with* He, Wan Sheng) A characterization of a class of π-regular semigroups. (Chinese. English and Chinese summaries)
Ren, Xue Ming (*with* Guo, Wei Qi; Shum, Kar Ping) Congruences on nil extensions of completely regular semigroups. (Chinese. Chinese summary)
Renner, Lex E. *see* **Pennell, Edwin A.; et al., 98j:20090**
Romeo, P. G. Universal regular semigroup of a concordant semigroup. (English summary) **98f:20045**
Sen, Mridul Kanti (*with* Yang, Haixuan; Guo, Yu Qi) Characterizations of some kinds of regular semigroups by inverses of elements. (English summary)
Shum, Kar Ping *see* **Ren, Xue Ming; et al.**
Su, Min Bang Some classes of left congruences on regular semigroups. (Chinese. English and Chinese summaries)
Szendrei, Mária B. Regular semigroups and semidirect products. (English summary) **98f:20046**
— *see also* **Gomes, Gracinda M. S., 98k:20104**
Tan, Yi Jia L-fuzzy congruences and Green's relations on regular semigroups. (Chinese. English and Chinese summaries)
Tang, Xilin Regular semigroups with inverse transversals. **98e:20064**
Trotter, Peter G. *see* **Jones, Peter R., 98b:20105**
Yamada, Miyuki On a straight locally inverse semigroup which is strongly $\mathscr{P}$-regular. (English summary) **98a:20069**
Yang, Guo Wei Congruences on a Γ-regular semigroup. (Chinese. English and Chinese summaries) **98h:20106**
Yang, Haixuan *see* **Sen, Mridul Kanti; et al.**
Yu, Bing Jun Biordered sets of $\mathscr{P}$-regular semigroups. (Chinese. English and Chinese summaries) **98b:20106**
Zhang, Mou-Cheng (*with* Li, Yong Hua^2) The I-congruences on a regular semigroup. (Chinese. English and Chinese summaries) **98c:20114**
— (*with* He, Yong^2) The structure of $\mathscr{P}$-regular semigroups. (English summary) **98d:20072**
Zhang, Rong Hua Note on semidirect products and wreath products of P-regular semigroups. (English summary) **98c:20115**
Zhang, Shan Mei (*with* Liu, Yao Jun) Some notes on Π-regular semigroups. (Chinese. English and Chinese summaries)
Zheng, Heng Wu Note on a certain class of $\mathscr{P}$-regular semigroups. (English summary) **98d:20074**
— Subdirect products of π-regular semigroups. (Chinese. English and Chinese summaries) **98e:20065**
— Congruences on $\mathscr{P}$-regular semigroups. (Chinese. English and Chinese summaries) **98h:20107**
— $\mathscr{P}$-regular semigroups and C-partial bands. (English summary) **98d:20073**

Items with secondary classifications in 20M17

Auinger, Karl (*with* Hall, T. E.) Representations of semigroups by transformations and the congruence lattice of an eventually regular semigroup. (English summary) **98a:20071**
Fernandes, Vitor H. Semigroups of order preserving mappings on a finite chain: a new class of divisors. (English summary) **98b:20095**
Hall, T. E. *see* **Auinger, Karl, 98a:20071**
Higgins, Peter M. Ramsey's theorem in algebraic semigroups. **98b:20100**
Huang, Jun Min On strongly regular rings. (English summary) **98d:16011**
Reilly, Norman R. (*with* Zhang, Shu Hua^1) Commutativity of operators on the lattice of existence varieties. (English summary) **98c:20106**
Sezinando, H. On Rhodes expansions of bands. (English summary) **98c:20108**
Trotter, Peter G. e-varieties of regular semigroups. (English summary) **98k:20096**
Wu, Jin Zhao Quantitative properties of Green equivalences on special monoids. (English summary) **98a:20066**
Zhang, Shu Hua^1 *see* **Reilly, Norman R., 98c:20106**
Zhu, Qing Shun Bi-ideals of poe-semigroups. (Chinese. English and Chinese summaries) **98k:06016**

20M18 Inverse semigroups

Annin, S. A. Hierarchy of efficient generators of the symmetric inverse monoid. (English summary) **98a:20070**
Bennett, Paul On the structure of inverse semigroup amalgams. (English summary) **98g:20095**
Gao, Li Ping Localization and the minimum group congruence of a strongly π-inverse semigroup. (Chinese. English and Chinese summaries)
Goberstein, Simon M. On i-correspondences and $\mathscr{C}i$-isomorphisms of inverse semigroups. (*see* **98h:20003**)
Gomes, Gracinda M. S. (*with* Howie, John M.) A P-theorem for inverse semigroups with zero. **98b:20107**
Hines, P. M. (*with* Lawson, M. V.) An application of polycyclic monoids to rings.
Howie, John M. *see* **Gomes, Gracinda M. S., 98b:20107**
Imaoka, Teruo (*with* Katsura, Masashi) Representations of locally inverse $*$-semigroups. II. (English summary) **98h:20108**
Katsura, Masashi *see* **Imaoka, Teruo, 98h:20108**
Latteux, Michel (*with* Robilliard, Denis; Simplot, David) Figures composées de pixels et monoïde inversif. (French summary) [Figures made of pixels and inverse monoid] **98c:20116**
Lawson, M. V. *see* **Hines, P. M.**
Liu, Zhongkui Characterization of inverse and left inverse semigroups by their S^1-acts. (English summary) **98e:20066**
Robilliard, Denis *see* **Latteux, Michel; et al., 98c:20116**
Schein, Boris M. Subsemigroups of inverse semigroups. **98m:20078**
Seth, Arindam Idempotent-separating congruences on inverse Γ-semigroups. (English summary)
Simplot, David *see* **Latteux, Michel; et al., 98c:20116**
Tian, Zhen Ji π-inverse semigroups whose lattice of π-inverse subsemigroups is modular. (Chinese. English and Chinese summaries)
— π-inverse semigroups whose lattice of π-inverse subsemigroups is 0-distributive or 0-modular.
Yamamura, Akihiro HNN extensions of inverse semigroups and applications. (English summary) **98m:20079**
Zhitomirskiĭ, G. I. Restrictive semigroups and sheaves. (English summary) **98j:20092**

Items with secondary classifications in 20M18

Crabb, M. J. (*with* Munn, W. D.) The centre of the algebra of a free inverse monoid. **98g:20097**

Gomes, Gracinda M. S. (*with* Szendrei, Mária B.) Idempotent pure extensions by inverse semigroups via quivers. (English summary) **98k:20104**
Ignat'eva, I. V. SH-approximation of semigroups by finite characters. (Russian) **98b:20110**
Imaoka, Teruo (*with* Ogawa, Takahide) Note on representations of generalized inverse $*$-semigroups. (English summary) **98e:20067**
Korkmaz, Recep On the closure of $\mathbf{B}^2_{(-\infty,\infty)}$. **98g:22003**
Lipscomb, Stephen The infinite alternating semigroup. **98h:20113**
Munn, W. D. *see* **Crabb, M. J., 98g:20097**
Ogawa, Takahide *see* **Imaoka, Teruo, 98e:20067**
Silva, Pedro V. Conjugacy and transposition for inverse monoid presentations. (English summary) **98b:20093**
— On free inverse monoid languages. (English and French summaries) **98b:68137**
Szendrei, Mária B. *see* **Gomes, Gracinda M. S., 98k:20104**
Yamada, Miyuki On a straight locally inverse semigroup which is strongly $\mathcal{P}$-regular. (English summary) **98a:20069**

20M19 Orthodox semigroups

Harinath, K. S. Some results on idempotent-existence in semigroups. **98h:20109**
Hou, Shu Hui Certain congruences on Δ-semigroups. (Chinese. English and Chinese summaries) **98g:20096**
Li, Shi Zheng *see* **Zhang, Yu Fen; et al., 98h:20110**
Wang, De Sheng *see* **Zhang, Yu Fen; et al., 98h:20110**
Zhang, Yu Fen (*with* Li, Shi Zheng; Wang, De Sheng) Localization of π-orthodox semigroups and application. (English and Chinese summaries) **98h:20110**

Items with secondary classifications in 20M19

Jiang, Zhonghao Bivarieties of orthodox semigroups generated by generalized Mal'cev products. **98d:20064**

20M20 Semigroups of transformations, etc. [see also 47D03, 47H20, 54H15]

Auinger, Karl (*with* Hall, T. E.) Representations of semigroups by transformations and the congruence lattice of an eventually regular semigroup. (English summary) **98a:20071**
Baird, B. B. (*with* Magill, Kenneth D., Jr.) Green's $\mathcal{R}$, $\mathcal{D}$ and $\mathcal{H}$ relations for generalized polynomials. **98h:20111**
Belyaev, A. K. On the enumeration of elements of a symmetric semigroup. (Russian. English and Ukrainian summaries) **98i:20062**
Camillo, Victor Row reduced matrices and annihilator semigroups. (English summary) **98h:20112**
Carscadden, Rob The orbit structure of the finite full transformation semigroups. (*see* **98h:20003**)
Hall, T. E. *see* **Auinger, Karl, 98a:20071**
Lipscomb, Stephen The infinite alternating semigroup. **98h:20113**
Magill, Kenneth D., Jr. Largest proper ideals of transformation semigroups. **98a:20072**
— *see also* **Baird, B. B., 98h:20111**
Saito, Tatsuhiko Remarks on maximal $\mathcal{J}$-trivial transformation semigroups on finite sets. **98h:20114**
Sullivan, R. P. Nilpotents in semigroups of partial transformations. (English summary) **98j:20093**
Umar, Abdullahi Semigroups of order-decreasing full transformations. (*see* **98h:20003**)
— On certain infinite semigroups of order-decreasing transformations. I. **98j:20094**

Items with secondary classifications in 20M20

Adams, M. E. (*with* Gould, Matthew) Endomorphism monoids of pseudocomplemented semilattices. (English summary) **98a:06007**
(Cole, J. M.) *see* **Lyapin, E. S., 98j:20099**
Cowan, David F. (*with* Wismath, S. L.) Unary iterative hyperidentities for semigroups and inverse semigroups. (English summary) **98d:20063**
Evseev, A. E. *see* **Lyapin, E. S., 98j:20099**
Fan, Suo Hai The regularity of the endomorphism monoid of a split graph. (Chinese. English and Chinese summaries)
Gould, Matthew *see* **Adams, M. E., 98a:06007**
(Higgins, Peter M.) *see* **Transformation semigroups, 98h:20003**
Krokhin, A. A. On clones, transformation monoids, and associative rings. (English summary) **98g:08006**
Lyapin, E. S. (*with* Evseev, A. E.) ★ The theory of partial algebraic operations. (English summary) **98j:20099**
Mashevitzky, G. On the finite basis problem for left hereditary systems of semigroup identities. (English summary) **98k:20099**
Nehaniv, Chrystopher L. Algebra and formal models of understanding. (English summary) (*see* **98d:00023**)
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20M25 Semigroup rings, multiplicative semigroups of rings [see also 16S36, 16Y60]

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— (*with* Wazalwar, A. K.) On some local properties of semigroups. (English summary)
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Jing, Fengjie *see* **Zeng, Xiangjin; et al., 98e:20070**
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Pop, Maria S. (*with* Câmpian, Maria) *n*-semigroups of fractions.
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Gupta, K. C. (*with* Singh, Tajinder Pal) Fuzzy G-congruences on a groupoid. (English summary)
Izbash, Vladimir I. Isomorphisms of quasigroups isotopic to groups. (English summary)
— (*with* Prodan, N. I.) On D-groupoids, quasigroups and homomorphisms. (English, Russian and Moldavian summaries)
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— *see also* **Ježek, Jaroslav, 98g:20102; Drápal, Aleš**
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Prodan, N. I. *see* **Izbash, Vladimir I.**
Protić, Petar V. (*with* Stevanović, Nebojša) On Abel-Grassmann's groupoids. (English summary) (*see* **98b:00030**)
— *see also* **Božinović, Milan; et al., 98c:20117** *and* **Stevanović, Nebojša, 98f:20050**
Shamilev, T. M. *see* **Khadzhiev, Dzh.**
Singh, Tajinder Pal *see* **Gupta, K. C.**
Stevanović, Nebojša (*with* Protić, Petar V.) The structural theorem for AG*-groupoids. (English summary) **98f:20050**
— *see also* **Božinović, Milan; et al., 98c:20117** *and* **Protić, Petar V., (98b:00030)**
Trch, M. *see* **Kepka, Tomáš**

Items with secondary classifications in 20N02

Beaudry, Martin Languages recognized by finite aperiodic groupoids (extended abstract). (English summary) (*see* **98d:68022**)
Cooper, Colin (*with* Kovalenko, Igor N.) An upper bound for the number of complete reflections. (Ukrainian. Ukrainian summary) **98c:60009**
Kovalenko, Igor N. *see* **Cooper, Colin, 98c:60009**
Kozhukhov, I. B. Artinian groupoid rings.
Pilitowska, Agata (*with* Romanowska, Anna; Roszkowska-Lech, Barbara) Products of mode varieties and algebras of subalgebras. (English summary) **98h:08001**
Romanowska, Anna *see* **Pilitowska, Agata; et al., 98h:08001**
Roszkowska-Lech, Barbara *see* **Pilitowska, Agata; et al., 98h:08001**
Sesboüé, André Finite monogenic distributive systems. **98c:08002**

20N05 Loops, quasigroups [see also 05Bxx]

de Barros, Luiz G. X. (*with* Juriaans, Stanley O.) Some loops whose loop algebras are flexible. (English summary) **98d:20076**
Belyavskaya, Galina Centre and multiplication groups of quasigroups. (English and Moldavian summaries)
— Theory of quasigroups: nuclei, center and commutator. (Russian. English summary) **98k:20110**
Bryant, Darryn E. (*with* Oates-Williams, Sheila) Strongly 2-perfect cycle systems and their quasigroups. (English summary) **98g:20103**
Burdujan, Ilie The linear quasigroup associated to a two-dimensional real division algebra is a homogeneous space. (Romanian summary)
Drisko, Arthur A. Loops of order $p^n + 1$ with transitive automorphism groups. (English summary) **98c:20118**
Goodaire, Edgar G. (*with* Polcino Milies, César) Nilpotent Moufang unit loops. (English summary) **98c:20119**
Issa, A. Nourou Examples of hypospecial loops. (English summary) **98c:20120**
Jančařík, A. *see* **Kepka, Tomáš**
Juriaans, Stanley O. *see* **de Barros, Luiz G. X., 98d:20076**
Kepka, Tomáš (*with* Jančařík, A.) Multiplication groups of quasigroups and loops. III. (English and Czech summaries)
— On the abelian inner permutation groups of loops. (English summary) **98m:20081**
Kiechle, Hubert (*with* Konrad, Angelika) The structure group of certain K-loops. (*see* **98i:16002**)
Konrad, Angelika *see* **Kiechle, Hubert, (98i:16002)**
Leong, Fook (*with* Rajah, Andrew) Moufang loops of odd order $p^n q_1^2 \cdots q_m^2 r_1 \cdots r_m$. (English summary) **98b:20115**
— (*with* Rajah, Andrew) Split extension in Moufang loops. (English summary) **98m:20082**
Loginov, Evgenii K. Linear representations of analytic Moufang loops. (English summary)
Marczak, A. W. On nondistributive Steiner quasigroups. (English summary) **98e:20071**
Nagy, Gábor P. Collineation groups of the smallest Bol 3-nets. (English summary) **98k:20111**
— Solvability of universal Bol 2-loops. **98k:20112**
Niemenmaa, Markku (*with* Vesanen, Ari) From geometries to loops and groups. (*see* **98e:20003**)
— On finite loops whose inner mapping groups have small orders. (English summary) **98a:20078**
Oates-Williams, Sheila *see* **Bryant, Darryn E., 98g:20103**
Polcino Milies, César *see* **Goodaire, Edgar G., 98c:20119**
Raines, M. E. More on embedding partial totally symmetric quasigroups. (English summary) **98b:20116**
Rajah, Andrew *see* **Leong, Fook, 98b:20115** *and* **98m:20082**
Sabinin, Lev V. Geo-odular axiomatics of affine spaces. (English summary) **98c:20121**
Shcherbakov, Viktor Alekseevich About signs of Moufang loop translations. (English, Russian and Moldavian summaries)

Shiftar, J. (*with* Zeitler, Herbert) Special quasigroups and Steiner systems. (English summary) **98k:20113**
Smith, J. D. H. Homotopy and semisymmetry of quasigroups. (English summary) **98m:20083**
Vasantha Kandasamy, W. B. On quasi-loops.
Vesanen, Ari *see* **Niemenmaa, Markku**, (**98e:20003**)
Zeitler, Herbert Was kann man mit Quasigruppen anfangen? [What can one do with quasigroups?] **98d:20077**
— *see also* **Shiftar, J., 98k:20113**

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de Barros, Luiz G. X. (*with* Juriaans, Stanley O.) Units in alternative integral loop rings. (English summary) **98d:17037**
Bennett, F. E. (*with* Wei, Ruizhong) The existence of Schröder designs with equal-sized holes. (English summary) **98e:05010**
Gabrieli, Elisabetta (*with* Karzel, Helmut) Reflection geometries over loops. (English summary) **98f:51017a**
— (*with* Karzel, Helmut) Point-reflection geometries, geometric K-loops and unitary geometries. (English summary) **98f:51017b**
— (*with* Karzel, Helmut) The reflection structures of generalized co-Minkowski spaces leading to K-loops. (English summary) **98f:51017c**
Ghalieh, Khuloud Algebraic properties of some configurational propositions. **98d:51004**
Goodaire, Edgar G. (*with* Polcino Milies, César) Central idempotents in alternative loop algebras. (English summary) **98i:17043**
Hotje, Herbert Fibered incidence loops by neardomains. (English summary) (*see* **98i:16002**)
Im, Bok-Hee *see* **Park, Won-Sun; et al., 98a:51003**
Ježek, Jaroslav (*with* Kepka, Tomáš) Selfdistributive groupoids of small orders. (English summary) **98g:20102**
— Enumerating left distributive groupoids. **98k:20109**
Juriaans, Stanley O. *see* **de Barros, Luiz G. X., 98d:17037**
Karzel, Helmut *see* **Gabrieli, Elisabetta, 98f:51017a**; **98f:51017b** *and* **98f:51017c**
Kepka, Tomáš *see* **Ježek, Jaroslav, 98g:20102**
Kikkawa, Michihiko Generalization of Lie triple algebra. (English summary) **98f:17002**
Kim, Pyeong-Ju *see* **Park, Won-Sun; et al., 98a:51003**
Kuznetsov, Evgeniĭ Alekseevich About some algebraic systems related with projective planes. (English summary) **98i:51004**
Loginov, Evgeniĭ K. On nonassociative gauge fields. (English summary) **98d:53105**
Matievics, István Geometries over universal left conjugacy closed quasifields. (English summary) **98e:51005**
Nesterov, A. I. (*with* Sabinin, Lev V.) Smooth loops, generalized coherent states, and geometric phases. (English summary) **98i:81095**
Park, Won-Sun (*with* Kim, Pyeong-Ju; Im, Bok-Hee) Centralizers of elements of the future cone in the Minkowski world. **98a:51003**
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(Saad, Gerhard) *see* **Nearrings, nearfields and K-loops, 98i:16002**
Sabinin, Lev V. On the diassociativity of smooth monoalternative loops. (Russian) **98d:22003**
— *see also* **Nesterov, A. I., 98i:81095**
Sokhatskiĭ, F. N. On superassociative group isotopes. (English summary) **98k:20114**
Szemők, Árpád Non-Euclidean plane Bol loops. (English summary) **98d:51015**
(Thomsen, Momme Johs) *see* **Nearrings, nearfields and K-loops, 98i:16002**
Wei, Ruizhong *see* **Bennett, F. E., 98e:05010**
Zeitler, Herbert About a special class of quasigroups. (English summary) **98c:05026**

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Nearrings and Nearfields ★ Nearrings, nearfields and K-loops. **98i:16002**
Hamburg ★ Nearrings, nearfields and K-loops. **98i:16002**
Nearrings, nearfields and K-loops ★ Nearrings, nearfields and K-loops. **98i:16002**

20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

Polonijo, Mirko Quasicentroids of tetrahedrons in IMC-ternary quasigroups. (English and Croatian summaries) **98e:20072**
Volenec, Vladimir Parallelogram spaces and their corresponding algebraic and geometric structures. (English and Croatian summaries)

Items with secondary classifications in 20N10

Hitotsuyanagi, Nobuo Manifolds with a triple multiplication. (English summary) **98g:53038**

20N15 n-ary systems

Armanious, M. H. Construction of nilpotent sloops of class n. (English summary) **98f:20051**
Câmpian, Maria *see* **Pop, Maria S.**
Chronowski, Antoni The interpretation and equivalence of the variety of n-groups. (English summary)
Dudek, Wiesław A. On distributive n-ary groups. (English summary)
Pop, Maria S. (*with* Câmpian, Maria) n-semigroups of fractions.
Sokhatskiĭ, F. N. On superassociative group isotopes. (English summary) **98k:20114**
Ušan, Janez On n-groups with $\{i, j\}$-neutral operation for $\{i, j\} \neq \{1, n\}$. (English summary) **98c:20122**

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Pop, V. The n-group morphisms of the real axis. (English summary) **98k:22017**

20N20 Hypergroups

Al Ali, M. I. M. On some multivalued systems and fundamental relations. (English and Turkish summaries)
— (*with* Brown, Ronald; Morris, Ifor; Shrimpton, J.; Wensley, C. D.) Higher-dimensional hypergroups. (English summary)
Brown, Ronald *see* **Al Ali, M. I. M.; et al.**
Chvalina, Jan Relational product of join spaces determined by quasi-orderings. (English summary) (*see* **98c:20002**)
Comer, Stephen D. Hyperstructures associated with character algebras and color schemes. (English summary) **98e:20073**
— Application-oriented hyperstructures. (English summary) (*see* **98c:20004**)
Corsini, Piergiulio On W-hypergroups. (English summary) (*see* **98c:20004**)
— (*with* Leoreanu, Violeta) Le théorème de Lagrange dans les hypergroupes. (English summary) [The Lagrange theorem for hypergroups]
— Mutually associative hypergroupoids. (*see* **98c:20002**)
— (*with* Tofan, Ioan) On fuzzy hypergroups. (English summary)
De Salvo, Mario (*with* Freni, Domenico; Lo Faro, Giovanni) On the hypergroups with four proper pairs and without scalars. **98h:20120**
— (*with* Lo Faro, Giovanni) Isomorphism classes in finite partial hypergroupoids of class two. **98m:20084**
— (*with* Freni, Domenico; Lo Faro, Giovanni) On the hypergroups with four proper pairs and two or three non-scalar elements. (English summary) **98g:20104**
Doria, Serena (*with* Maturo, Antonio) Hyperstructures and geometric spaces associated to a family of events. (English summary)
Dramalidis, Achilles Some geometrical P-H_V-structures. (English summary) (*see* **98c:20004**)
— Duality of H_V-rings defined on the same set. (English summary) (*see* **98c:20002**)
Freni, Domenico (*with* Gutan, Marin; Sureau, Y.) Sur le groupe des scalaires d'un hypergroupe. (French summary) [The group of scalars of a hypergroup] **98h:20121**
— *see also* **De Salvo, Mario; et al., 98g:20104** *and* **98h:20120**
Gutan, Cornélia On the very thin hyperstructures. (English summary) **98i:20065**
— Plongements d'un hypergroupe dans un hypergroupe ayant un élément de plus. (French summary) [Embeddings of a hypergroup in a hypergroup with an extra element]
— Les semi-hypergroupes commutatifs très fins. (English and French summaries) [Very thin commutative hypergroups] **98m:20085**
Gutan, Marin Cogroupes: résultats et problèmes ouverts. [Cogroups: results and open problems] **98i:20066**
— *see also* **Freni, Domenico; et al., 98h:20121**
Hasankhani, A. (*with* Zahedi, M. M.) On F-hypermodules. (English summary) (*see* **98c:20002**)
— *see also* **Zahedi, M. M., 98b:20117** *and* (**98c:20004**)
Innamorati, Stefano (*with* Peroni, Patrizia) Hyperclassification of remote sensing images. (English summary)
Juntosciak, James Transposition in hypergroups. (English summary) (*see* **98c:20002**)
Leoreanu, Violeta Généralisation de notions et résultats de la théorie des groupes dans les hypergroupes. (English summary) [Generalization to hypergroups of notions and results of group theory] (*see* **98c:20004**)
— Une note sur les demi-hypergroupes qui sont quasi-hypergroupes d'un côté. [A note on semihypergroups that are one-sided quasihypergroups] (*see* **98c:20002**)
— *see also* **Corsini, Piergiulio**
Lo Faro, Giovanni *see* **De Salvo, Mario; et al., 98g:20104**; **98h:20120** *and* **98m:20084**
Mahmoud, Mashhour I. On w-hyperstructures. (English summary)
Massouros, Christos G. Application of the hypercompositional structures into geometry. (English summary) (*see* **98h:00035**)
— Canonical and join hypergroups.
— On the result of the difference of a subgroup of the multiplicative group of a field from itself. (English summary) (*see* **98c:20002**)
— *see also* **Massouros, Gerasimos G.; et al., 98a:20079**
Massouros, Gerasimos G. (*with* Massouros, Christos G.; Mittas, I. D.) Fortified join hypergroups. (English summary) **98a:20079**
— Solving equations and systems in the environment of a hyperringoid. (English summary) (*see* **98c:20002**)
Maturo, Antonio On some hyperstructures of conditional events. (English summary) **98g:20105**
— *see also* **Doria, Serena**
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Morris, Ifor *see* **Al Ali, M. I. M.; et al.**
Peroni, Patrizia *see* **Innamorati, Stefano**
Santilli, Ruggero Maria (*with* Vougiouklis, Thomas) Isotopies, genotopies, hyperstructures and their applications. (English summary) **98g:20106**
Scafati Tallini, M. Subspaces quotient spaces and homomorphisms between hypervector spaces. (Italian. English summary)
Shrimpton, J. *see* **Al Ali, M. I. M.; et al.**
Spartalis, Stefanos Quotients of P-H_V-rings. (English summary) (*see* **98c:20004**)
— Homomorphisms on (H, R)-H_V-rings. (English summary) (*see* **98c:20002**)
Stefănescu, Mirela E. On constructions of hypergroups. (*see* **98g:00020**)
— Constructions of hypergroups. (English summary) **98e:20074**
Stratigopoulos, Demetrios Starlike hypergroups of type (m, n). (*see* **98c:20002**)
Sureau, Y. *see* **Freni, Domenico; et al., 98h:20121**
Tofan, Ioan *see* **Corsini, Piergiulio**
Vougiouklis, Thomas Hyperstructures and uniting elements. (Romanian summary) **98e:20075**
— On H_V-fields. (English summary) (*see* **98c:20002**)
— Convolutions on WASS hyperstructures. (English summary) (*see* **98e:00015**)
— *see also* **Santilli, Ruggero Maria, 98g:20106**
Wensley, C. D. *see* **Al Ali, M. I. M.; et al.**
Yatras, Constantinos N. M-polysymmetrical subhyperrings and M-polysymmetrical hyperideals. (English summary) (*see* **98c:20002**)

Zahedi, M. M. (*with* Hasankhani, A.) Some results on F-polygroups. (English summary) (*see* **98c:20004**)
— (*with* Hasankhani, A.) F-polygroups. II. (English summary) **98b:20117**
— *see also* **Hasankhani, A.**, (**98c:20002**)

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Bukhshtaber, V. M. (*with* Veselov, A. P.) Integrable correspondences and algebraic representations of multivalued groups. **98f:58098**
Chvalina, Jan (*with* Chvalinová, Ludmila) State hypergroups of automata. (English summary) **98e:68185**
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(Corsini, Piergiulio) *see* **Algebraic hyperstructures and applications**, **98c:20002**
Davvaz, B. On H_v-subgroups and antifuzzy H_v-subgroups. (English summary)
Gutan, Cornélia Extensions des semigroupes associées à certains semihypergroupes très fins. (English summary) [Semigroup extensions associated with some very thin semihypergroups] (*see* **98c:20002**)
(Jantosciak, James) *see* **Algebraic hyperstructures and applications**, **98c:20002**
(Kepka, Tomáš) *see* **Algebraic hyperstructures and applications**, **98c:20002**
Mahmoud, Mashhour I. General hypernear-rings and hypernear-fields. (English summary)
Malik, D. S. (*with* Mordeson, John N.; Sen, Mridul Kanti) Free fuzzy submonoids and fuzzy automata. (English summary) **98b:68135**
Mordeson, John N. *see* **Malik, D. S.; et al.**, **98b:68135**
Santilli, Ruggero Maria Geometrization of locally varying speeds of light via the iso-Riemannian geometry. **98g:53128**
Sen, Mridul Kanti *see* **Malik, D. S.; et al.**, **98b:68135**
(Sureau, Y.) *see* **Algebraic hyperstructures and applications**, **98c:20002**
Veselov, A. P. *see* **Bukhshtaber, V. M.**, **98f:58098**
(Vougiouklis, Thomas) *see* **Algebraic hyperstructures and applications**, **98c:20002**

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Algebraic hyperstructures and applications ★ Algebraic hyperstructures and applications. **98c:20002**
Congress:
Algebraic Hyperstructures and Applications ★ Algebraic hyperstructures and applications. **98c:20002**
Prague ★ Algebraic hyperstructures and applications. **98c:20002**

20N25 Fuzzy groups [see also 04A72]

Abujabal, Hamza A. S. (*with* Alghamdi, Mohamed Ali; Zaidi, S. M. A.; Ansari, Q. A.) On co-completeness of the categories of L-fuzzy subgroups. (English summary)
Alam, M. Z. (*with* Yadav, Ramdeo Prasad) Fuzzy group and fuzzy normal subgroup. (English summary)
Alghamdi, Mohamed Ali *see* **Abujabal, Hamza A. S.; et al.**
Ansari, Q. A. *see* **Abujabal, Hamza A. S.; et al.**
Biswas, Ranjit Intuitionistic fuzzy subgroups. (English summary)
Davvaz, B. On H_v-subgroups and antifuzzy H_v-subgroups. (English summary)
Giri, Sunil Kumar *see* **Singh, Manoranjan Kumar**
Gutan, Marin Sur la transitivité de la relation β dans les quasi-hypergroupes finis. (English summary) [Transitivity of the relation β in finite quasihypergroups] (*see* **98c:20002**)
Kim, Han-Doo *see* **Kim, Jae-Gyeom**
Kim, Jae-Gyeom Meet-reducibility of fuzzy subgroups. (English summary)
— (*with* Kim, Han-Doo) Orders relative to TL-subgroups. (English summary)
— Some properties of TL-groups. (English summary)
Li, Shu-You *see* **Zhou, Jun; et al.**
Li, Su-Yun *see* **Zhou, Jun; et al.**
Li, Xiao-ping *see* **Wang, Gui Jun**
Mashinchi, M. *see* **Salili, Sh.**, (**98h:00035**); **Soleimani Nasab, A.**, (**98h:00035**); **Ziaie, S. A.**, (**98h:00035**) *and* (**98h:00035**)
Ovchinnikov, Sergei On the image of an L-fuzzy group. (English summary)
Ray, Suryansu Modified TL-subgroups of a group. (English summary) **98i:20067**
Salili, Sh. (*with* Mashinchi, M.) On fuzzy isomorphism. (English summary) (*see* **98h:00035**)
Šešelja, Branimir (*with* Tepavčević, Andreja) A note on fuzzy groups. (English summary)
Singh, Amrendra Kumar *see* **Singh, Manoranjan Kumar**
Singh, Manoranjan Kumar (*with* Singh, Amrendra Kumar) Fuzzy groups. (English summary)
— (*with* Giri, Sunil Kumar) A note on fuzzy groups. (English summary)
Soleimani Nasab, A. (*with* Mashinchi, M.) Fuzzy coset representation. (English summary) (*see* **98h:00035**)
Tepavčević, Andreja *see* **Šešelja, Branimir**
Tong, Shao Cheng (*with* Zhang, Yunjie) Fuzzy subgroups of the same type. (English summary) **98b:20118**
Wang, Gui Jun (*with* Zhou, Yan Jun) Homomorphisms and isomorphisms of T_H interval-valued fuzzy groups. (Chinese. English and Chinese summaries)
— (*with* Li, Xiao-ping) T_H interval-valued fuzzy normal subgroups. (Chinese. English and Chinese summaries)
Yadav, Ramdeo Prasad *see* **Alam, M. Z.**
Yin, Guo-min (*with* Zhang, Cheng[2]) On definitions of intuitionistic fuzzy subgroups. (English summary)
Youssef, Nabil L. Fuzzy partial group theory. (English summary)
Zaidi, S. M. A. *see* **Abujabal, Hamza A. S.; et al.**
Zhang, Cheng[2] (t, s)-intuitionistic fuzzy subgroups. (English summary)
— *see also* **Yin, Guo-min**
Zhang, Yunjie (*with* Zou, Kaiqi) A note on an equivalence relation on fuzzy subgroups. (English summary)
— *see also* **Tong, Shao Cheng**, **98b:20118**
Zhou, Jun (*with* Li, Su-Yun; Li, Shu-You) LP-fuzzy normal subgroups and fuzzy quotient groups. (English summary)
Zhou, Yan Jun *see* **Wang, Gui Jun**
Ziaie, S. A. (*with* Mashinchi, M.) On cardinality of the image of some fuzzy subsets of a group. (English summary) (*see* **98h:00035**)
— (*with* Mashinchi, M.) Isomorphism of fuzzy subgroups. (English summary) (*see* **98h:00035**)
Zou, Kaiqi *see* **Zhang, Yunjie**

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Bhakat, S. K. (*with* Das, Phullendu) A note on fuzzy Archimedean ordering. (English summary) **98f:06014**
Corsini, Piergiulio (*with* Tofan, Ioan) On fuzzy hypergroups. (English summary)
Das, Phullendu *see* **Bhakat, S. K.**, **98f:06014**
Das, Pratyayananda On some properties of fuzzy semiautomaton over a finite group. (English summary) **98f:68192**
Hasankhani, A. *see* **Zahedi, M. M.**, **98b:20117**
Li, Sen Lin (*with* Yu, Yandong; Wang, Zhudeng) T-congruence L-relations on groups and rings. (English summary) **98g:04012**
Tofan, Ioan *see* **Corsini, Piergiulio**
Wang, Zhudeng *see* **Li, Sen Lin; et al.**, **98g:04012**
Yu, Yandong *see* **Li, Sen Lin; et al.**, **98g:04012**
Zahedi, M. M. (*with* Hasankhani, A.) F-polygroups. II. (English summary) **98b:20117**

20N99 None of the above, but in this section

Bhavanari, Satyanarayana (*with* Kuncham, Syam Prasad) A result on E-direct systems in N-groups. (English summary)
Drápal, Aleš Low level computations in finite left distributive algebras. (English summary) **98i:20068**
Kumar, Rajeev *see* **Maggu, P. L.**
Kuncham, Syam Prasad *see* **Bhavanari, Satyanarayana**
Maggu, P. L. (*with* Kumar, Rajeev) On sub-bigroup and its applications. (English summary)
Vasantha Kandasamy, W. B. On a natural trinary [ternary] operation in the modulo integers Z_n. (English summary)

Items with secondary classifications in 20N99

Zieschang, Paul-Hermann On maximal closed subsets in association schemes. (English summary) **98i:05168**

20P05 Probabilistic methods in group theory

Shalev, Aner Random generation of simple groups by two conjugate elements. **98h:20122**

Items with secondary classifications in 20P05

Chung, Fan R. K. (*with* Graham, Ronald L.) Random walks on generating sets for finite groups. (English summary) **98c:60087**
Desbois, Jean (*with* Nechaev, Sergei) Statistical mechanics of braided Markov chains. I. Analytic methods and numerical simulations. (English summary) **98m:82030**
Gluck, David Characters and random walks on finite classical groups. **98g:20027**
Graham, Ronald L. *see* **Chung, Fan R. K.**, **98c:60087**
Nechaev, Sergei *see* **Desbois, Jean**, **98m:82030**
Scarabotti, Fabio Time to reach stationarity in the Bernoulli-Laplace diffusion model with many urns. **98d:60014**

22–XX Topological groups, Lie groups {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX.}

22–01 Instructional exposition (textbooks, tutorial papers, etc.)

Adams, John Frank ★ Lectures on exceptional Lie groups. **98b:22001**
Knapp, Anthony W. ★ Lie groups beyond an introduction. (English summary) **98b:22002**
(Mahmud, Zafer) *see* **Adams, John Frank, 98b:22001**
(May, J. Peter) *see* **Adams, John Frank, 98b:22001**
(Mimura, Mamoru) *see* **Adams, John Frank, 98b:22001**

Items with secondary classifications in 22–01

Borel, Armand ★ Automorphic forms on $SL_2(\mathbf{R})$. (English summary) **98j:11028**
Folland, Gerald B. ★ A course in abstract harmonic analysis. **98c:43001**
Weyl, Hermann ★ The classical groups. (English summary) **98k:01049**

22–02 Research exposition (monographs, survey articles)

Feinsilver, Philip (*with* Schott, René) ★ Algebraic structures and operator calculus. Vol. III. (English summary) **98k:22001**
Kobayashi, Toshiyuki Harmonic analysis on homogeneous manifolds of reductive type and unitary representation theory [MR 95k:22011]. (English summary) (*see* **98k:00025**)
Schott, René *see* **Feinsilver, Philip, 98k:22001**

Items with secondary classifications in 22–02

Arthur, James The problem of classifying automorphic representations of classical groups. (*see* **98f:00020**)
— Stability and endoscopy: informal motivation. **98j:22029**
Barbasch, Dan The spherical dual for p-adic groups. **98k:22068**
Chriss, Neil (*with* Ginzburg, V. A.) ★ Representation theory and complex geometry. (English summary) **98i:22021**
Cowling, Michael Herz's "principe de majoration" and the Kunze-Stein phenomenon. **98k:22040**
Djoković, Dragomir Ž. (*with* Hofmann, Karl H.) The surjectivity question for the exponential function of real Lie groups: a status report. (English summary) **98m:22008**
Donley, Robert W., Jr. Irreducible representations of $SL(2, \mathbf{R})$. (*see* **98i:22001**)
— The Borel-Weil theorem for $U(n)$. (*see* **98i:22001**)
Farb, Benson The quasi-isometry classification of lattices in semisimple Lie groups. **98k:22044**
Ginzburg, V. A. *see* **Chriss, Neil, 98i:22021**
Helgason, Sigurdur Orbital integrals, symmetric Fourier analysis, and eigenspace representations. (English summary) **98i:22019**
Hofmann, Karl H. *see* **Djoković, Dragomir Ž., 98m:22008**
Kutzko, Philip C. Smooth representations of reductive p-adic groups: an introduction to the theory of types. **98k:22072**
Mœglin, Colette Representations of $GL(n, F)$ in the non-Archimedean case. (*see* **98i:22001**)
Ratner, Marina Interactions between ergodic theory, Lie groups, and number theory. **98k:22046**
Rosenfeld, Boris A. ★ Geometry of Lie groups. (English summary) **98i:53002**
Starkov, A. N. New progress in the theory of homogeneous flows. (Russian) **98k:22047**

22–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 22–03

(Harish-Chandra) *see* **Helgason, Sigurdur**
Hawkins, Thomas The birth of Lie's theory of groups. **98g:01062**
Helgason, Sigurdur Harish-Chandra and his mathematical legacy: some personal recollections.
(Lie, Sophus) *see* **Hawkins, Thomas, 98g:01062**
(Pedersen, Niels Vigand) *see* **Varadarajan, V. S.**
Varadarajan, V. S. Niels Vigand Pedersen (1949–1996).

22–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 22–04

Grudziński, K. (*with* Wybourne, Brian G.) Computing properties of the non-compact groups $Mp(2n)$ and $Sp(2n, \mathbf{R})$ using SCHUR. (English summary) **98m:81049**
Wybourne, Brian G. *see* **Grudziński, K., 98m:81049**

22–06 Proceedings, conferences, collections, etc.

(Bailey, Toby N.) *see* **Representation theory and automorphic forms, 98i:22001**
(Knapp, Anthony W.) *see* **Representation theory and automorphic forms, 98i:22001**
(Tirao, Juan A.) *see* **Geometry and representation theory of real and p-adic groups, 98g:22001**
(Vogan, David A., Jr.) *see* **Geometry and representation theory of real and p-adic groups, 98g:22001**
(Wolf, Joseph A.) *see* **Geometry and representation theory of real and p-adic groups, 98g:22001**

Items listed otherwise than by author

Conference:
Representation Theory and Automorphic Forms ★ Representation theory and automorphic forms. **98i:22001**
Córdoba ★ Geometry and representation theory of real and p-adic groups. **98g:22001**
Edinburgh ★ Representation theory and automorphic forms. **98i:22001**
Geometry and representation theory of real and p-adic groups ★ Geometry and representation theory of real and p-adic groups. **98g:22001**
Proceedings of Symposia in Pure Mathematics ★ Representation theory and automorphic forms. **98i:22001**
Progress in Mathematics ★ Geometry and representation theory of real and p-adic groups. **98g:22001**
Representation theory and automorphic forms ★ Representation theory and automorphic forms. **98i:22001**
Workshop:
Representation Theory of Lie Groups and its Applications ★ Geometry and representation theory of real and p-adic groups. **98g:22001**

Items with secondary classifications in 22–06

(Korányi, Adam) *see* **Harmonic functions on trees and buildings, 98b:31001**

Items listed otherwise than by author

Contemporary Mathematics ★ Harmonic functions on trees and buildings. **98b:31001**
Harmonic functions on trees and buildings ★ Harmonic functions on trees and buildings. **98b:31001**
New York ★ Harmonic functions on trees and buildings. **98b:31001**
Workshop:
Harmonic Functions on Graphs ★ Harmonic functions on trees and buildings. **98b:31001**

22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80; for dual spaces of operator algebras and topological groups, see 47D35.}

22A05 Structure of general topological groups

Bruguera, M. Montserrat Some properties of locally quasi-convex groups. (English summary) **98k:22002**
Cates, Sharon *see* **Clark, Bradd, 98k:22004**
Chasco Ugarte, Ma. Jesús Pontryagin duality for metrizable groups. (English summary) **98k:22003**
Clark, Bradd (*with* Cates, Sharon) Algebraic obstructions to sequential convergence in Hausdorff abelian groups. (English summary) **98k:22004**
— *see also* **Clay, Ellen; et al., 98m:22001**
Clay, Ellen (*with* Clark, Bradd; Schneider, Victor P.) Using a set to construct a group topology. (English summary) **98m:22001**
Comfort, W. W. (*with* Remus, Dieter) Intervals of totally bounded group topologies. (English summary) **98k:22005**
Dikranjan, Dikran N. (*with* Shakhmatov, Dmitrii B.) Algebraic structure of pseudocompact groups. (English summary) **98j:22001**
Galindo, Jorge (*with* Hernández, Salvador) On the completion of a MAP group. (English summary) **98i:22002**
Garcia-Ferreira, Salvador On free p-compact groups. (English summary) **98k:22006**
(Gould, G. G.) *see* **Neretin, Yu. A., 98b:22003**
Hernández, Salvador *see* **Galindo, Jorge, 98i:22002**
Hindman, Neil Recent results on the algebraic structure of βS. (English summary) **98k:22007**
Kumar, Amit *see* **Prasad, Bhikhari, 98a:22001**
Neeb, Karl-Hermann On a theorem of S. Banach. (English summary) **98i:22003**
Neretin, Yu. A. ★ Categories of symmetries and infinite-dimensional groups. **98b:22003**
Prasad, Bhikhari (*with* Kumar, Amit) Duality theory of a Boolean algebraic topological group. (English summary) **98a:22001**
Remus, Dieter *see* **Comfort, W. W., 98k:22005**
Robbie, Desmond A note on ordered power associative (topological) groupoids. (English summary) **98k:22008**
Sankaran, Parameswaran (*with* Varadarajan, Kalathoor) Corrections to: "On certain homeomorphism groups" [J. Pure Appl. Algebra **92** (1994), no. 2, 191–197; MR 95e:22004]. **98b:22004**
Schneider, Victor P. *see* **Clay, Ellen; et al., 98m:22001**
Shakhmatov, Dmitrii B. A direct proof that every infinite compact group G contains $\{0,1\}^{w(G)}$. (English summary) **98k:22009**
— *see also* **Dikranjan, Dikran N., 98j:22001**
Sipacheva, Olga V. On free topological groups with the inductive limit topologies. (English summary) **98m:22002**
Solecki, S. (*with* Srivastava, S. M.) Automatic continuity of group operations. (English summary) **98j:22002**
Srivastava, S. M. *see* **Solecki, S., 98j:22002**
Trigos-Arrieta, F. Javier Products of locally pseudocompact topological groups. (English summary) **98k:22010**
Varadarajan, Kalathoor *see* **Sankaran, Parameswaran, 98b:22004**
Willis, George A. Totally disconnected, nilpotent, locally compact groups. (English summary) **98d:22001**

Items with secondary classifications in 22A05

Arkhangel'skiĭ, A. V. Bisequential spaces, tightness of products, and metrizability conditions in topological groups. (Russian. Russian summary) **98e:54032**

— (*with* Malykhin, V. I.) Metrizability of topological groups. (Russian. Russian summary) **98e:54033**

Arvasi, Zekeriya *see* **Koçak, Mahmut**, **98h:54005**

Burova, T. V. Topological characteristics of free bases of topological groups and topological vector spaces. (Russian. Russian summary) **98b:46010**

Comfort, W. W. On the existence of group topologies. (English summary) **98h:54050**

van Engelen, Fons Borel groups of low descriptive complexity. (English summary) **98g:54087**

Gartside, P. M. (*with* Reznichenko, E. A.; Sipacheva, Olga V.) Mal'tsev and retral spaces. (English summary) **98e:54034**

Hejcman, Jan On simple recognizing of bounded sets. (English summary) **98j:54046**

Itzkowitz, Gerald (*with* Shakhmatov, Dmitriĭ B.) Dense countably compact subgroups of compact groups. (English summary) **98k:54068**

— (*with* Shakhmatov, Dmitriĭ B.) Haar nonmeasurable partitions of compact groups. (English summary) **98i:22007**

Koçak, Mahmut (*with* Arvasi, Zekeriya) Near ultrafilters and compactification of topological groups. (English and Turkish summaries) **98h:54005**

Malykhin, V. I. *see* **Arkhangel'skiĭ, A. V.**, **98e:54033**

Mayer, Matthias Strongly mixing groups. **98k:43012**

Megrelishvili, Michael Free topological groups over (semi) group actions. (English summary) **98g:54094**

Nogura, Tsugunori (*with* Shakhmatov, Dmitriĭ B.; Tanaka, Yoshio) α_4-property versus A-property in topological spaces and groups. (English summary) **98k:54001**

Protasov, I. V. Absolutely resolvable groups. (Russian. English and Ukrainian summaries) **98d:20060**

— *see also* **Zelenyuk, E. G.**, **98k:54070**

Reznichenko, E. A. *see* **Gartside, P. M.; et al.**, **98e:54034**

Shakhmatov, Dmitriĭ B. *see* **Itzkowitz, Gerald**, **98i:22007**; **Nogura, Tsugunori; et al.**, **98k:54001** *and* **Itzkowitz, Gerald**, **98k:54068**

Sipacheva, Olga V. *see* **Gartside, P. M.; et al.**, **98e:54034**

Tanaka, Yoshio *see* **Nogura, Tsugunori; et al.**, **98k:54001**

Tkachenko, M. G. Embeddings of biuniform spaces into topological groups. (English summary) **98d:54071**

Tomita, Artur Hideyuki On finite powers of countably compact groups. (English summary) **98a:54033**

Zelenyuk, E. G. (*with* Protasov, I. V.) Nonresolvable and extremally disconnected topologies on groups. (Russian. English summary) **98k:54070**

22A10 Analysis on general topological groups

Dijkstra, Jan J. (*with* van Mill, Jan) Groups without convergent sequences. (English summary) **98f:22001**

van Mill, Jan *see* **Dijkstra, Jan J.**, **98f:22001**

Weber, Hans A diagonal theorem. Answer to a question of Antosik. (English summary) **98c:22001**

Items with secondary classifications in 22A10

Çakalli, H. Conservative series methods on complete topological groups. (English summary)

Hernández, Salvador (*with* Sanchis, Manuel) Dugundji spaces in the coset space G/H. (English summary) **98e:54035**

Rangan, G. (*with* Saleemullah, M. S.) p-adic almost periodicity and representations. II. (English summary) **98d:46086**

Saleemullah, M. S. *see* **Rangan, G.**, **98d:46086**

Sanchis, Manuel *see* **Hernández, Salvador**, **98e:54035**

22A15 Structure of topological semigroups

Candeal, Juan Carlos (*with* De Miguel, Juan Ramón; Induráin Eraso, Esteban) Topological additively representable semigroups. (English summary) **98k:22011**

Chae, Younki (*with* Kim, Ju-Young; Choi, In Sim) The semigroup of compact subsets of a topological group. (English summary) **98g:22002**

— (*with* Choi, Keunbae) Maximal subgroups in C_s^k semigroups. (English summary) **98f:22002**

Choi, In Sim *see* **Chae, Younki; et al.**, **98g:22002**

Choi, Keunbae *see* **Chae, Younki**, **98f:22002**

De Miguel, Juan Ramón *see* **Candeal, Juan Carlos; et al.**, **98k:22011**

Dumesnil, Jill A. The structure of compact completely simple semigroups with the congruence extension property. **98k:22012**

Hindman, Neil (*with* Maleki, Amir; Strauss, Dona) Central sets and their combinatorial characterization. (English summary) **98d:22002**

Induráin Eraso, Esteban *see* **Candeal, Juan Carlos; et al.**, **98k:22011**

Kim, Ju-Young *see* **Chae, Younki; et al.**, **98g:22002**

Korkmaz, Recep On the closure of $\mathbf{B}^2_{(-\infty,\infty)}$. **98g:22003**

Laktionova, S. V. Some properties of compact topological semigroups. (Russian) **98m:22003**

Lim, Youngdo On *UDL* decompositions in semigroups. (English summary) **98k:22013**

Maleki, Amir *see* **Hindman, Neil; et al.**, **98d:22002**

Strauss, Dona *see* **Hindman, Neil; et al.**, **98d:22002**

Tomita, Artur Hideyuki The Wallace problem: a counterexample from $\mathrm{MA}_{\text{countable}}$ and p-compactness. (English summary) **98a:22002**

Items with secondary classifications in 22A15

Bandyopadhyay, T. *see* **Ganguly, Sobhakar**, **98d:54060**

Bergelson, Vitaly (*with* Hindman, Neil) IP* sets in product spaces. (English summary) **98b:05098**

Chae, Younki (*with* Choi, Keunbae) Reachable sets in Lie groups. (English summary) **98m:93010**

Choi, Keunbae *see* **Chae, Younki**, **98m:93010**

Ebrahimi-Vishki, H. R. (*with* Pourabdollah, Mohammad Ali) On universal commutative compactification of semigroups. (English summary) (*see* **98h:00035**)

Ganguly, Sobhakar (*with* Bandyopadhyay, T.) Partially ordered topological spaces and semigroups. **98d:54060**

He, Yuanjiang Some properties of the delayed renewal sequence semigroup. (English and Chinese summaries) **98m:60139**

Hindman, Neil *see* **Bergelson, Vitaly**, **98b:05098**

Ho, Phoebe (*with* Plummer, Paul; So, Shing) Some results on compact convergence semigroups defined by filters. (English summary)

Hofmann, Karl H. (*with* Ruppert, Wolfgang A. F.) Lie groups and subsemigroups with surjective exponential function. (English summary) **98f:22007**

Hota, Sanju (*with* Purisch, S.; Rajagopalan, Minakshisundaram) Countably compact spaces which cannot be cancellative topological semigroups. (English summary) **98h:54051**

Imaoka, Teruo (*with* Ogawa, Takahide) Note on representations of generalized inverse $*$-semigroups. (English summary) **98e:20067**

Lashkarizadeh Bami, Mahmood On some topologies which coincide on $\mathcal{R}$, (S) for a foundation topological semigroup S. (English summary) **98m:54041**

Lau, Anthony T. M. (*with* Milnes, Paul; Pym, J. S.) Locally compact groups, invariant means and the centres of compactifications. (English summary) **98k:22021**

Milnes, Paul *see* **Lau, Anthony T. M.; et al.**, **98k:22021**

Molchanov, Vladimir A. A nonstandard approach to compact inverse semigroups of local homeomorphisms. **98m:54009**

Ogawa, Takahide *see* **Imaoka, Teruo**, **98e:20067**

Plummer, Paul *see* **Ho, Phoebe; et al.**

Pourabdollah, Mohammad Ali *see* **Ebrahimi-Vishki, H. R.**, (**98h:00035**)

Purisch, S. *see* **Hota, Sanju; et al.**, **98h:54051**

Pym, J. S. *see* **Lau, Anthony T. M.; et al.**, **98k:22021**

Rajagopalan, Minakshisundaram *see* **Hota, Sanju; et al.**, **98h:54051**

Ruppert, Wolfgang A. F. *see* **Hofmann, Karl H.**, **98f:22007**

So, Shing *see* **Ho, Phoebe; et al.**

Tortrat, Albert Sur les lois de probabilités idempotentes dans les demi-groupes. (English summary) [On idempotent probability laws in semigroups] **98d:60016**

22A20 Analysis on topological semigroups

Voronin, V. V. SH-approximation of compact semigroups by continuous characters. (Russian) **98k:22014**

Items with secondary classifications in 22A20

Aminpour, A. M. Semigroups and spaces of separately continuous functions associated with oids. (*see* **98h:00035**)

Blackmore, T. D. Weak amenability of discrete semigroup algebras. **98h:43001**

Bümlinger, Martin Functions with a finite number of negative squares on compact groups. **98c:43006**

Laktionova, S. V. Some properties of compact topological semigroups. (Russian) **98m:22003**

Murphy, Gerard J. (*with* West, T. T.) Averaging theorems for linear operators in compact groups and semigroups. (English summary) **98e:47016**

West, T. T. *see* **Murphy, Gerard J.**, **98e:47016**

22A22 Topological groupoids (including differentiable and Lie groupoids)

Moerdijk, Ieke (*with* Pronk, D. A.) Orbifolds, sheaves and groupoids. (English summary) **98i:22004**

Pronk, D. A. *see* **Moerdijk, Ieke**, **98i:22004**

Items with secondary classifications in 22A22

Kumjian, Alexander Fell bundles over groupoids. (English summary) **98i:46055**

Mokri, Tahar On Lie algebroid actions and morphisms. (French summary) **98h:58209**

Monthubert, Bertrand (*with* Pierrot, François) Indice analytique et groupoïdes de Lie. (English and French summaries) [Analytic index and Lie groupoids] **98k:58219**

Pierrot, François *see* **Monthubert, Bertrand**, **98k:58219**

Robbie, Desmond A note on ordered power associative (topological) groupoids. (English summary) **98k:22008**

22A25 Representations of general topological groups and semigroups

Items with secondary classifications in 22A25

(Gould, G. G.) *see* **Neretin, Yu. A.**, **98b:22003**

Neeb, Karl-Hermann On a theorem of S. Banach. (English summary) **98i:22003**

Neretin, Yu. A. ★ Categories of symmetries and infinite-dimensional groups. **98b:22003**

Tortrat, Albert Sur les lois de probabilités idempotentes dans les demi-groupes. (English summary) [On idempotent probability laws in semigroups] **98d:60016**

22A26 Topological semilattices, lattices and applications [see also 06B30, 06B35, 06F30]

Arnautov, V. I. (*with* Topalè, A. G.) On the nonmodularity of the lattice of group topologies. (Russian. English, Russian and Moldavian summaries) **98k:22015**

Topalè, A. G. *see* **Arnautov, V. I.**, **98k:22015**

22A30 Other topological algebraic systems and their representations

Sabinin, Lev V. On the diassociativity of smooth monoalternative loops. (Russian)

98d:22003

Items with secondary classifications in 22A30

Dzinotyiweyi, H. A. M. (*with* van Rooij, Arnoud C. M.) Non-Archimedean harmonic analysis on topological semigroups. II. (English summary) **98h:11102**
Ramsay, Arlan (*with* Walter, Martin E.) Noncommutative harmonic analysis on groupoids. (English summary) **98j:43003**
van Rooij, Arnoud C. M. *see* **Dzinotyiweyi, H. A. M., 98h:11102**
Voit, Michael Discrete hypergroups constructed by successive substitutions. (English summary) **98b:43013**
Walter, Martin E. *see* **Ramsay, Arlan, 98j:43003**

22A99 None of the above, but in this section

Buzhuf, Khamza (*with* Mukhin, V. V.) Topologies on semigroups and groups defined by families of deviations and norms. (Russian) **98k:22016**
Mukhin, V. V. *see* **Buzhuf, Khamza, 98k:22016**
Pop, V. The n-group morphisms of the real axis. (English summary) **98k:22017**

Items with secondary classifications in 22A99

Antonyan, S. A. Equivariant embeddings of metrizable G-spaces. (Russian) **98d:54030**
Escassut, Alain (*with* Haddad, Labib; Sarmant-Durix, Marie-Claude) Characterial functions. (English summary) **98g:12012**
Gusić, Ivica A topology on lattice ordered groups. (English summary) **98k:06017**
Haddad, Labib *see* **Escassut, Alain; et al., 98g:12012**
He, Yuanjiang Upper monotone partial monoids. (English and Chinese summaries) **98g:60018**
Sarmant-Durix, Marie-Claude *see* **Escassut, Alain; et al., 98g:12012**
Tian, Yuan Uniform transformation groups on lower-dimensional spaces. (English summary) **98f:54030**
Todd, Aaron R. The G_δ-topology, light compactness, and pseudocompleteness. (English summary) **98g:54064**
Zelenyuk, E. G. Topologically free subsets of universal algebras. (Russian. English and Ukrainian summaries) **98f:08001**

22Bxx Locally compact abelian groups (LCA groups)

22B05 General properties and structure of LCA groups

Comfort, W. W. (*with* Trigos-Arrieta, F. Javier; Wu, Ta Sun) Correction to the paper: "The Bohr compactification, modulo a metrizable subgroup" [Fund. Math. **143** (1993), no. 2, 119–236; MR 94i:22013]. **98b:22005**
Fuchs, László[1] (*with* Hofmann, Karl H.) Extensions of compact abelian groups by discrete ones and their duality theory. I. **98i:22005**
Hernández, Salvador Another approach to an algebraic characterization of compact abelian groups. **98f:22003**
Hofmann, Karl H. *see* **Fuchs, László[1], 98i:22005**
Lo, Wai Lok (*with* Nillsen, Rodney) Differences of functions and group generators for compact abelian groups. (English summary) **98i:22006**
Nillsen, Rodney *see* **Lo, Wai Lok, 98i:22006**
Trigos-Arrieta, F. Javier Normality and the weak topology on a locally compact abelian group. (English summary) **98m:22004**
— *see also* **Comfort, W. W.; et al., 98b:22005**
Wu, Ta Sun *see* **Comfort, W. W.; et al., 98b:22005**

Items with secondary classifications in 22B05

Bruguera, M. Montserrat Some properties of locally quasi-convex groups. (English summary) **98k:22002**
Coşkun, Erdal Diffuse and discrete semigroups of probability measures on abelian Hilbert-Lie groups. (English and Italian summaries) **98c:60008**
Gordon, E. I. ★ Nonstandard methods in commutative harmonic analysis. (English summary) **98f:03056**
(McFaden, H. H.) *see* **Gordon, E. I., 98f:03056**
Popa, Valeriu Connectivity in homomorphism groups. (English, Russian and Moldavian summaries) **98j:54029**
Remus, Dieter (*with* Trigos-Arrieta, F. Javier) Locally convex spaces as subgroups of products of locally compact abelian groups. (English summary) **98f:46003**
Stroppel, Markus Homogeneous locally compact groups. (English summary) **98j:22003**
Trigos-Arrieta, F. Javier *see* **Remus, Dieter, 98f:46003**

22B10 Structure of group algebras of LCA groups

Items with secondary classifications in 22B10

Grinnell, Raymond J. A note on certain intertwining operators. (English summary) **98k:43005**
Kepert, Andrew G. The range of group algebra homomorphisms. (English summary) **98m:43005**

22B99 None of the above, but in this section

Items with secondary classifications in 22B99

Bingham, Michael S. (*with* Gaiser, Jürgen) An analogue on locally compact abelian groups of Kolmogorov's three series criterion. (*see* **97d:60003**)
Carnal, H. (*with* Fel′dman, G. M.) Phase retrieval for probability measures on abelian groups. II. (English summary) **98j:60006**
Fagnani, Fabio Shifts on compact and discrete Lie groups: algebraic-topological invariants and classification problems. (English summary) **98c:54034**
Fel′dman, G. M. *see* **Carnal, H., 98j:60006**
Gaiser, Jürgen *see* **Bingham, Michael S., (97d:60003)**

22C05 Compact groups

Ahdout, Shahla (*with* Hurwitz, Carol; Itzkowitz, Gerald; Rothman, Sheldon; Strassberg, Helen) Maximal protori in compact topological groups. (English summary) **98h:22001**
Bokaev, N. A. *see* **Nurkhanov, M. A., 98m:22005**
Hurwitz, Carol *see* **Ahdout, Shahla; et al., 98h:22001**
Itzkowitz, Gerald (*with* Shakhmatov, Dmitriĭ B.) Haar nonmeasurable partitions of compact groups. (English summary) **98i:22007**
— *see also* **Ahdout, Shahla; et al., 98h:22001**
Lam, S. P. Lie group homomorphisms which induce isomorphisms of representation rings. **98b:22006**
Leopold, Christian Butler groups and Lord groups. (English summary) **98k:22018**
Nurkhanov, M. A. (*with* Bokaev, N. A.) Generalization of a uniqueness theorem for multiple series in systems of characters of Vilenkin groups. (Russian. English, Russian and Kazakh summaries) **98m:22005**
Orlowski, Arkadiusz *see* **Strasburger, Aleksander, 98h:22002**
Rothman, Sheldon *see* **Ahdout, Shahla; et al., 98h:22001**
Shakhmatov, Dmitriĭ B. *see* **Itzkowitz, Gerald, 98i:22007**
Strasburger, Aleksander (*with* Orlowski, Arkadiusz) Weighted class operators: a new approach to tensor operators for compact groups. (English summary) **98h:22002**
Strassberg, Helen *see* **Ahdout, Shahla; et al., 98h:22001**

Items with secondary classifications in 22C05

Chigogidze, A. Ch. (*with* Hofmann, Karl H.; Martin, John R.) Compact groups and fixed point sets. (English summary) **98g:54074**
Cohen, Jo-Ann (*with* Koh, Kwangil) Topological and algebraic properties of the subgroup generated by the involutions in a compact ring. (English summary) (*see* **98d:54001**)
Comfort, W. W. (*with* Trigos-Arrieta, F. Javier; Wu, Ta Sun) Correction to the paper: "The Bohr compactification, modulo a metrizable subgroup" [Fund. Math. **143** (1993), no. 2, 119–236; MR 94i:22013]. **98b:22005**
Dikranjan, Dikran N. (*with* Uspenskiĭ, Vladimir V.) Isomorphisms between homeomorphic connected compact-like abelian groups. (English summary) **98k:54067**
— (*with* Shakhmatov, Dmitriĭ B.) Algebraic structure of pseudocompact groups. (English summary) **98j:22001**
Dooley, Anthony H. (*with* Gupta, Sanjiv Kumar) On norms of trigonometric polynomials on SU(2). (English summary) **98b:43015**
Fagnani, Fabio Shifts on compact and discrete Lie groups: algebraic-topological invariants and classification problems. (English summary) **98c:54034**
Fuchs, László[1] (*with* Hofmann, Karl H.) Extensions of compact abelian groups by discrete ones and their duality theory. I. **98i:22005**
Gupta, Sanjiv Kumar *see* **Dooley, Anthony H., 98b:43015**
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Trigos-Arrieta, F. Javier *see* **Comfort, W. W.; et al., 98b:22005**
Unterberger, Jérémie M. Prolongement analytique des séries de Fourier sur un groupe compact. (English and French summaries) [Analytic extension of Fourier series on a compact group] **98m:43012**
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22Dxx Locally compact groups and their algebras

22D05 General properties and structure of locally compact groups

Ahdout, Shahla (*with* Rothman, Sheldon) Additive subgroups of the plane. **98k:22019**
Chademan, Arsalan (*with* Mirzapour, Farzollah) Boundedness properties of midconvex functions in locally compact groups. (English summary) **98k:22020**
Itzkowitz, Gerald (*with* Wu, Ta Sun) Iwasawa-type decomposition in compact groups. (English summary) **98i:22008**
Lau, Anthony T. M. (*with* Milnes, Paul; Pym, J. S.) Locally compact groups, invariant means and the centres of compactifications. (English summary) **98k:22021**
Mayer, Matthias Asymptotics of matrix coefficients and closures of Fourier-Stieltjes algebras. (English summary) **98d:22004**
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Pym, J. S. *see* **Lau, Anthony T. M.; et al., 98k:22021**
Qiu, Chong Yi Amenability and introversion operators [translation operators] for compact topological groups. (Chinese. English and Chinese summaries) **98g:22004**
Riggins, Lemuel *see* **Wu, Ta Sun, 98h:22003**
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Stroppel, Markus Homogeneous locally compact groups. (English summary) **98j:22003**
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— (*with* Yang, Jeong Sheng) Some remarks on locally compact topological groups. (English summary) **98b:22007**
— *see also* **Itzkowitz, Gerald**, **98i:22008**
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Aita, Marco (*with* Bergmann, Wolfgang R.; Conti, Roberto[2]) Amenable groups and generalized Cuntz algebras. (English summary) **98k:46110**
Baker, John Walter (*with* Filali, Mahmoud) Minimal ideals in group algebras and their biduals. (English summary) **98f:22004**
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Comfort, W. W. (*with* Trigos-Arrieta, F. Javier; Wu, Ta Sun) Correction to the paper: "The Bohr compactification, modulo a metrizable subgroup" [Fund. Math. **143** (1993), no. 2, 119–236; MR 94i:22013]. **98b:22005**
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Costash, A. I. The connected component of the group of units of a locally compact ring. (English, Russian and Moldavian summaries) **98m:16052**
Filali, Mahmoud *see* **Baker, John Walter**, **98f:22004**
Pisier, Gilles A simple proof of a theorem of Kirchberg and related results on C^*-norms. (English summary) **98e:46076**
Poguntke, Detlev The structure of twisted convolution C^*-algebras on abelian groups. (English summary) **98j:22004**
Todorčević, Stevo ★ Topics in topology. **98g:54002**
Trigos-Arrieta, F. Javier *see* **Comfort, W. W.; et al.**, **98b:22005**
Wi, Mi-Aeng The generator of the analytic group with its Lie algebra $\mathfrak{g} = \mathrm{rad}(\mathfrak{g}) \dotplus \mathfrak{sl}(2, \mathbf{F})$. **98e:22002**
Willis, George A. Totally disconnected, nilpotent, locally compact groups. (English summary) **98d:22001**
Wu, Ta Sun *see* **Comfort, W. W.; et al.**, **98b:22005**

22D10 Unitary representations of locally compact groups

Bekka, Mohammed El Bachir (*with* Kaniuth, Eberhard; Lau, Anthony T. M.; Schlichting, G.) Weak*-closedness of subspaces of Fourier-Stieltjes algebras and weak*-continuity of the restriction map. (English summary) **98h:22004**
Burger, Marc (*with* de la Harpe, Pierre) Constructing irreducible representations of discrete groups. (English summary) **98k:22022**
Choe, Geon H. Mean ergodic theorem and multiplicative cocycles. **98e:22001**
Figà-Talamanca, Alessandro Local fields and trees. **98h:22005**
de la Harpe, Pierre *see* **Burger, Marc**, **98k:22022**
He, Jian Xun[3] (*with* Liu, Heping) Admissible wavelets associated with the affine automorphism group of the Siegel upper half-plane. (English summary) **98k:22023**
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Kaniuth, Eberhard *see* **Bekka, Mohammed El Bachir; et al.**, **98h:22004**
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Pensavalle, Carlo (*with* Steger, Tim) Restriction problem for anisotropic principal series of free groups. (English summary) **98b:22008**
Schlichting, G. *see* **Bekka, Mohammed El Bachir; et al.**, **98h:22004**
Steger, Tim *see* **Pensavalle, Carlo**, **98b:22008**
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Valette, Alain Old and new about Kazhdan's property (T). **98a:22003**

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Archbold, Robert J. (*with* Kaniuth, Eberhard) On the primitive ideal space of a finitely generated nilpotent group. (English summary) **98d:46061**
Bagchi, Bhaskar (*with* Misra, Gadadhar) Constant characteristic functions and homogeneous operators. (English summary) **98a:47009**
Ballmann, W. (*with* Świątkowski, J.) On L^2-cohomology and property (T) for automorphism groups of polyhedral cell complexes. (English summary) **98m:20043**
Capozzoli, Anthony Relative spectrum for smooth actions of Kazhdan groups on fiber bundles. (English summary) **98e:58135**
Christensen, Ole Atomic decomposition via projective group representations. (English summary) **98h:43004**
Kaniuth, Eberhard *see* **Archbold, Robert J.**, **98d:46061**
Kisil, Vladimir V. Construction of integral representations for spaces of analytic functions. (Russian) **98d:46027**
Mayer, Matthias Asymptotics of matrix coefficients and closures of Fourier-Stieltjes algebras. (English summary) **98d:22004**
— Strongly mixing groups. **98k:43012**
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Mlotkowski, Wojciech Irreducible representations of free products of infinite groups. **98c:43007**
Niblo, Graham A. (*with* Roller, Martin A.) Groups acting on cubes and Kazhdan's property (T). (English summary) **98k:20058**
Roller, Martin A. *see* **Niblo, Graham A.**, **98k:20058**
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22D12 Other representations of locally compact groups

Items with secondary classifications in 22D12

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Kangni, Kinvi (*with* Touré, Saliou) Représentation unitaire sphérique de type δ. (English summary) [Spherical unitary representation of type δ] **98k:22024**
Mlotkowski, Wojciech Irreducible representations of free products of infinite groups. **98c:43007**
Paulin, Frédéric Dégénérescence de sous-groupes discrets des groupes de Lie semi-simples. (English and French summaries) [Degeneracy of discrete subgroups of semisimple Lie groups] **98g:22006**
Touré, Saliou *see* **Kangni, Kinvi**, **98k:22024**

22D15 Group algebras of locally compact groups

Baggett, Lawrence W. (*with* Kaniuth, Eberhard; Moran, William) Primitive ideal spaces, characters, and Kirillov theory for discrete nilpotent groups. (English summary) **98k:22025**
Baker, John Walter (*with* Filali, Mahmoud) Minimal ideals in group algebras and their biduals. (English summary) **98f:22004**
Filali, Mahmoud *see* **Baker, John Walter**, **98f:22004**
Grundling, Hendrik B. A group algebra for inductive limit groups. Continuity problems of the canonical commutation relations. (English summary) **98k:22026**
Kaniuth, Eberhard *see* **Baggett, Lawrence W.; et al.**, **98k:22025**
Moran, William *see* **Baggett, Lawrence W.; et al.**, **98k:22025**

Items with secondary classifications in 22D15

Bettaieb, Hela (*with* Valette, Alain) Sur le groupe K_1 des C^*-algèbres réduites de groupes discrets. (English and French summaries) [On K_1 of reduced C^*-algebras of discrete groups] **98b:46090**
Valette, Alain *see* **Bettaieb, Hela**, **98b:46090**

22D25 C^*-algebras and W^*-algebras arising from group representations [see also 46Lxx]

Milnes, Paul (*with* Walters, Samuel) Simple infinite-dimensional quotients of $C^*(G)$ for discrete 5-dimensional nilpotent groups G. **98h:22006**
Plonka, Ernest On a method of determining supports of Thoma's characters of discrete groups. (English summary) **98m:22006**
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Abadie, Beatriz (*with* Eilers, Søren; Exel, Ruy) Morita equivalence for crossed products by Hilbert C^*-bimodules. (English summary) **98k:46109**
Arledge, Jane (*with* Laca, Marcelo; Raeburn, Iain) Semigroup crossed products and Hecke algebras arising from number fields. (English summary) **98k:46111**
Baumgärtel, Hellmut A modified approach to the Doplicher/Roberts theorem on the construction of the field algebra and the symmetry group in superselection theory. (English summary) **98i:46052**
Connes, Alain Noncommutative geometry. (Finnish) (*see* **98d:00001**)
Crocker, David (*with* Kumjian, Alexander; Raeburn, Iain; Williams, Dana P.) An equivariant Brauer group and actions of groups on C^*-algebras. (English summary) **98j:46076**
Echterhoff, Siegfried (*with* Raeburn, Iain) The stabilisation trick for coactions. **98c:46142**
— Crossed products with continuous trace. (English summary) **98f:46055**
Eilers, Søren *see* **Abadie, Beatriz; et al.**, **98k:46109**
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Grundling, Hendrik B. A group algebra for inductive limit groups. Continuity problems of the canonical commutation relations. (English summary) **98k:22026**
Kaniuth, Eberhard Ideal theory in C^*-algebras of discrete groups. (English summary) **98c:46115**
Kraus, Jon (*with* Ruan, Zhong-Jin) Multipliers of Kac algebras. (English summary) **98g:46090**
Kumjian, Alexander Fell bundles over groupoids. (English summary) **98i:46055**
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Miao, Tianxuan Compactness of a locally compact group G and geometric properties of $A_p(G)$. (English summary) **98g:43003**
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Putnam, Ian F. A survey of recent K-theoretic invariants for dynamical systems. **98g:46104**
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Rejali, A. The analogue of weighted group algebra for semitopological semigroups. (English summary) **98f:43002**
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Sudo, Takahiro Stable rank of the reduced C^*-algebras of non-amenable Lie groups of type I. (English summary) **98b:46093**

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22D30 Induced representations

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22D35 Duality theorems

Items with secondary classifications in 22D35

Cartier, Pierre Développements récents sur les groupes de tresses. Applications à la topologie et à l'algèbre. (English summary) [Recent developments in the study of braid groups. Applications to topology and algebra] (*see* **98e:58004**)
Leopold, Christian Butler groups and Lord groups. (English summary) **98k:22018**

22D40 Ergodic theory on groups [see also 28Dxx, 43A60]

Nevo, Amos (*with* Thangavelu, Sundaram) Pointwise ergodic theorems for radial averages on the Heisenberg group. (English summary) **98f:22005**
— (*with* Stein, Elias M.) Analogs of Wiener's ergodic theorems for semisimple groups. I. **98m:22007**
Scheutzow, Michael On the perfection of crude cocycles. (English summary) **98b:22009**
Schmidt, Klaus[1] From infinitely divisible representations to cohomological rigidity. **98i:22009**
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Witte, David Riley Correction and extension of: "Measurable quotients of unipotent translations on homogeneous spaces" [Trans. Amer. Math. Soc. **345** (1994), no. 2, 577–594; MR 95a:22005]. (English summary) **98c:22002**

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Bartoszek, Wojciech On concentrated probabilities on non-locally compact groups. (English summary) **98b:60013**
— More on the equation $\nu * \rho * \mu = \rho$. **98m:43001**
Bezuglyi, S. I. On recurrence and superrecurrence of H-cocycles. (English, Russian and Ukrainian summaries) **98m:28039**
Dajani, Karma (*with* Dooley, Anthony H.) The mean ratio set for $ax + b$ valued cocycles. (English summary) **98g:28019**
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Fëdorov, A. L. (*with* Rubshtein, Ben-Zion) Admissible subgroups of full ergodic groups. (English summary) **98e:28023**
Gefter, S. L. Outer automorphism group of the ergodic equivalence relation generated by translations of dense subgroup of compact group on its homogeneous space. (English summary) **98m:28040**
Heyer, H. Generation and representation of convolution hemigroups on a Polish group. **98f:60006**
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Murphy, Gerard J. (*with* West, T. T.) Averaging theorems for linear operators in compact groups and semigroups. (English summary) **98e:47016**
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Stepin, A. M. Approximation of groups and group actions, the Cayley topology. **98b:28028**
Walker, Trent E. Ergodic theorems for free group actions on von Neumann algebras. (English summary) **98k:46115**
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22D45 Automorphism groups of locally compact groups

Brenken, Berndt The local product structure of expansive automorphisms of solenoids and their associated C^*-algebras. (English summary) **98c:22003**

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Fagnani, Fabio Shifts on compact and discrete Lie groups: algebraic-topological invariants and classification problems. (English summary) **98c:54034**
Shah, Riddhi Convergence-of-types theorems on p-adic algebraic groups. (English summary) **98b:22021**

22D99 None of the above, but in this section

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Shur, M. G. On a theorem on the asymptotic equidistribution of convolution powers of symmetric measures on a unimodular group. (Russian. Russian summary) **98e:43001**

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

22E05 Local Lie groups [see also 34–XX, 35–XX, 58H05]

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Fushchich, Vîl'gel'm Îlîich Symmetry of equations of linear and nonlinear quantum mechanics. (Ukrainian. English and Ukrainian summaries) **98h:35201**
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Nieto, Michael Martin (*with* Truax, D. Rodney) Displacement-operator squeezed states. I. Time-dependent systems having isomorphic symmetry algebras. (English summary) **98b:81034a**
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Lie group analysis of differential equations *see* **Anderson, Robert Leonard; et al., 98b:58176**

22E10 General properties and structure of complex Lie groups [see also 32M05]

Knapp, Anthony W. Structure theory of semisimple Lie groups. (English summary) **98i:22010**
Tam, Tin-Yau Kostant's convexity theorem and the compact classical groups. (English summary) **98k:22029**

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Cohen, Arjeh M. (*with* Tiep, Pham Huu) Splitting fields for Jordan subgroups. (English summary) **98a:20044**
Djoković, Dragomir Ž. (*with* Hofmann, Karl H.) The surjectivity question for the exponential function of real Lie groups: a status report. (English summary) **98m:22008**
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22E15 General properties and structure of real Lie groups

Barbasch, Dan (*with* Sepanski, Mark R.) Closure ordering and the Kostant-Sekiguchi correspondence. (English summary) **98c:22004**
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Koseleff, P.-V. About approximations of exponentials. (English summary) **98f:22008**
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Ratiu, Tudor S. *see* **Flaschka, Hermann, 98d:58058**
San Martin, Luiz A. B. *see* **Barros, Carlos José Braga, 98b:93036**
Suzuki, Masuo Convergence of exponential product formula and its applications to Hamiltonian systems. (English summary) **98b:81066**
— Compact exponential product formulas and operator functional derivative. (English summary) **98a:81106**
Wu, Ta Sun *see* **Itzkowitz, Gerald, 98i:22008**
Wüstner, Michael On compact elements in solvable Lie groups. **98k:22034**
Zuccalli, Marcela *see* **Fernandez, Javier Alejandro, 98f:58081**

22E20 General properties and structure of other Lie groups

Wi, Mi-Aeng The generator of the analytic group with its Lie algebra $\mathfrak{g} = \mathrm{rad}(\mathfrak{g}) \oplus \mathfrak{sl}(2, \mathbf{F})$. **98e:22002**

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Kazakos, Demosthenes *see* **Apostolou, Nikolaos, 98k:93017**
Kobayashi, Toshiyuki Invariant measures on homogeneous manifolds of reductive type. (English summary) **98h:53082**
Yokota, Ichiro *see* **Abe, Kōjun, 98k:53069**

22E25 Nilpotent and solvable Lie groups

Alexopoulos, Georges Convolution powers on discrete groups of polynomial volume growth. (English summary) **98m:22009**
Arnal, Didier (*with* Fujiwara, Hidenori; Ludwig, Jean) Opérateurs d'entrelacement pour les groupes de Lie exponentiels. (French summary) [Intertwining operators for exponential Lie groups] **98b:22012**
Benson, Chal (*with* Jenkins, Joe; Lipsman, Ronald L.; Ratcliff, Gail) A geometric criterion for Gelfand pairs associated with the Heisenberg group. (English summary) **98i:22012**
Damek, Ewa (*with* Hulanicki, Andrzej; Zienkiewicz, Jacek) Estimates for the Poisson kernels and their derivatives on rank one *NA* groups. (English summary) **98h:22007**
Dekimpe, Karel (*with* Lee, Kyung Bai; Raymond, Frank A.) Bieberbach theorems for solvable Lie groups. (*see* **98b:57002**)
Dhieb, Semi (*with* Ludwig, Jean) Caractérisation des convoluteurs de Schwartz des groupes de Lie nilpotents. (English and French summaries) [Characterization of the Schwartz multipliers of nilpotent Lie groups] **98f:22009**
Fujiwara, Hidenori *see* **Arnal, Didier; et al., 98b:22012**
Hidenori, Fujiwara Sur la conjecture de Corwin-Greenleaf. (English summary) [On the Corwin-Greenleaf conjecture] **98k:22031**
Hulanicki, Andrzej *see* **Damek, Ewa; et al., 98h:22007**
Jenkins, Joe *see* **Benson, Chal; et al., 98i:22012**
Lee, Kyung Bai *see* **Dekimpe, Karel; et al., (98b:57002)**
Lipsman, Ronald L. *see* **Benson, Chal; et al., 98i:22012**
Ludwig, Jean *see* **Arnal, Didier; et al., 98b:22012** *and* **Dhieb, Semi, 98f:22009**
Mustapha, Sami Multiplicateurs spectraux sur certains groupes non-unimodulaires. [Spectral multipliers on certain nonunimodular groups] **98k:22032**
Neuenschwander, Daniel Uniqueness of roots in $I^1(\Gamma, N_0)$ over lattices in simply connected nilpotent Lie groups. (English summary) **98k:22033**
Peloso, Marco M. (*with* Ricci, Fulvio) Solvability of invariant differential operators on the Heisenberg group. (Italian. Italian summary) **98f:22010**
Ratcliff, Gail *see* **Benson, Chal; et al., 98i:22012**
Raugi, Albert Fonctions harmoniques positives sur certains groupes de Lie résolubles connexes. (English and French summaries) [Positive harmonic functions on certain connected solvable Lie groups] **98h:22008**
Raymond, Frank A. *see* **Dekimpe, Karel; et al., (98b:57002)**
Ricci, Fulvio *see* **Peloso, Marco M., 98f:22010**
Wüstner, Michael On compact elements in solvable Lie groups. **98k:22034**
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Astengo, Francesca (*with* Camporesi, Roberto; Di Blasio, Bianca) The Helgason Fourier transform on a class of nonsymmetric harmonic spaces. (English summary) **98j:22008**
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Christ, Michael (*with* Müller, Detlef Horst) On L^p spectral multipliers for a solvable Lie group. **98b:22017**
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Cristante, Valentino *see* **Candilera, Maurizio, 98b:22025**
Cutri, A. *see* **Birindelli, Isabeau; et al., 98d:35049**
Di Biasio, Bianca Paley-Wiener type theorems on harmonic extensions of H-type groups. (English summary) **98f:43009**
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Mosak, Richard (*with* Moskowitz, Martin) Lattices in a split solvable Lie group. **98k:22045**
Moskowitz, Martin *see* **Mosak, Richard, 98k:22045**
Müller, Detlef Horst (*with* Peloso, Marco M.; Ricci, Fulvio) On the solvability of homogeneous left-invariant differential operators on the Heisenberg group. (English summary) **98k:35024**
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Nevo, Amos (*with* Thangavelu, Sundaram) Pointwise ergodic theorems for radial averages on the Heisenberg group. (English summary) **98f:22005**
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Tie, Jingzhi *see* **Chang, Der-Chen, 98k:22038**
Tomé, Wolfgang A representation independent propagator. II. Lie groups with square integrable representations. (English and French summaries) **98f:22016**
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22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)

Corwin, Lawrence (*with* Moore, Calvin C.) L^p matrix coefficients for nilpotent Lie groups. (English summary) **98b:22013**
Inoue, Junko[1] Semi-invariant vectors associated to decompositions of monomial representations of exponential Lie groups. **98j:22007**
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Schempp, Walter *see* **Klimyk, A. U.**, **98b:22014**
Varga, Peter[2] Taming of the wild group of magnetic translations. (English summary) **98k:22035**
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Burde, Dietrich Étale affine representations of the Lie groups. **98k:53066**
Chern, Shikai Dirac induction for unimodular Lie groups. (English summary) **98d:22007**
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Qu, Chang-Zheng (*with* Zhang, Quanju) Necessary conditions for local solvability of differential operators. (English and Chinese summaries) **98a:35002**
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22E30 Analysis on real and complex Lie groups [see also 33C80, 43–XX]

Arnal, Didier (*with* Yahyai, M.) Star products for SL(2). (English summary) **98b:22015**
Astengo, Francesca (*with* Camporesi, Roberto; Di Blasio, Bianca) The Helgason Fourier transform on a class of nonsymmetric harmonic spaces. (English summary) **98j:22008**
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Cahen, Benjamin Quantification d'une orbite massive d'un groupe de Poincaré généralisé. (English and French summaries) [Quantization of a massive orbit of a generalized Poincaré group] **98k:22036**
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Christ, Michael (*with* Müller, Detlef Horst) On L^p spectral multipliers for a solvable Lie group. **98b:22017**
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Gross, Leonard (*with* Malliavin, Paul) Hall's transform and the Segal-Bargmann map. (English summary) **98j:22010**
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Hall, Brian C. The inverse Segal-Bargmann transform for compact Lie groups. (English summary) **98e:22004**
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Hebisch, Waldemar Boundedness of L^1 spectral multipliers for an exponential solvable Lie group. **98e:22005**
Huang, Jing-Song Plancherel formulae for non-symmetric polar homogeneous spaces. (English summary) **98b:22018**
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Nhieu, Duy-Minh Extension of Sobolev spaces on the Heisenberg group. (English and French summaries) **98c:22011**
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Coşkun, Erdal Differentiable functions and the generators on a Hilbert-Lie group. (English and Turkish summaries) **98k:60012**
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Fang, Shizan (*with* Franchi, Jacques) De Rham-Hodge-Kodaira operator on loop groups. (English summary) **98k:58245**
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Guhr, Thomas Comment on: "The Itzykson-Zuber integral for U($m|n$)" [J. Math. Phys. **36** (1995), no. 6, 3085–3093; MR 97f:58018] by J. Alfaro, R. Medina and L. F. Urrutia. **98f:58039**
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22E46 Semisimple Lie groups and their representations

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He, Jian Xun[3] Wavelets associated with the automorphism group of the unit disk. (English and Chinese summaries) **98h:22016**
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— *see also* **Zhao, Qiang, 98j:22025**
Huang, Jing-Song *see* **Zhu, Chen-Bo, 98j:22026**
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Koufany, K. (*with* Ørsted, Bent) Hardy spaces on two-sheeted covering semigroups. (English summary) **98k:22060**
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Tirao, Juan A. On the structure of the classifying ring of SO(n, 1) and SU(n, 1). (English summary) **98j:22023**
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Yamamoto, Atsuko[2] Orbits in the flag variety and images of the moment map for classical groups. I. (English summary) **98j:22024**
Yamashita, Hiroshi[1] *see* **Yoshinaga, Tetsumi, 98b:22032**
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Zhao, Qiang (*with* Hou, Zixin) The Langlands classification of representations having integral regular infinitesimal characters of the classical groups of type A_n, B_n, and C_n. (English summary) **98j:22025**
— *see also* **Hou, Zixin, 98k:22059**
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Zhu, Chen-Bo (*with* Huang, Jing-Song) On certain small representations of indefinite orthogonal groups. (English summary) **98j:22026**
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Borel, Armand ★ Automorphic forms on $SL_2(\mathbf{R})$. (English summary) **98j:11028**
Capozzoli, Anthony Relative spectrum for smooth actions of Kazhdan groups on fiber bundles. (English summary) **98e:58135**
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Dorofaeff, Brian Weak amenability and semidirect products in simple Lie groups. **98c:22005**
Eskin, Alex (*with* Mozes, Shahar; Shah, Nimish A.) Non-divergence of translates of certain algebraic measures. (English summary) **98d:22006**
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Komrakov, Boris Primitive actions and the Sophus Lie problem. **98e:53082**
Littelmann, Peter An algorithm to compute bases and representation matrices for SL_{n+1}-representations. (English summary) **98h:17008**
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Shapira, Yair Algebraic interpretation of continued fractions. (English summary) **98e:40002**
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Chriss, Neil (*with* Ginzburg, V. A.) ★ Representation theory and complex geometry. (English summary) **98i:22021**
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Reeder, Mark Exterior powers of the adjoint representation. (English summary) **98m:22021**
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Boe, Brian D. (*with* Fu, Joseph H. G.) Characteristic cycles in Hermitian symmetric spaces. (English summary) **98j:14068**
Čap, Andreas Translation of natural operators on manifolds with AHS-structures. (English summary) **98k:53029**
— (*with* Slovák, Jan; Souček, V.) Invariant operators on manifolds with almost Hermitian symmetric structures. I. Invariant differentiation. (English summary) **98m:53036**
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Hou, Zixin (*with* Zhao, Qiang) Geometric parameters corresponding to representations of the classical groups with integral infinitesimal characters. (English summary) **98k:22059**
Karabegov, A. V. Berezin's quantization on flag manifolds and spherical modules. (English summary) **98i:58106**
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— The spherical dual for p-adic groups. **98k:22068**
Blondel, Corinne Critère d'injectivité pour l'application de Jacquet. (English and French summaries) [Injectivity criterion for the Jacquet map] **98k:22069**
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Chen, Zhong Hu A note on the Harish-Chandra homomorphisms of Chevalley groups over p-adic fields. (Chinese. Chinese summary) **98i:22022**
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Courtès, François Sur le transfert des intégrales orbitales pour les groupes linéaires (cas p-adique). (English and French summaries) [On the transfer of orbital integrals for linear groups (p-adic case)] **98i:22023**
Evens, Sam (*with* Mirković, Ivan) Fourier transform and the Iwahori-Matsumoto involution. **98m:22022**
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Goldberg, David (*with* Herb, Rebecca A.) Some results on the admissible representations of non-connected reductive p-adic groups. (English summary) **98b:22033**
— R-groups and elliptic representations for similitude groups. **98i:22024**
Herb, Rebecca A. Matching theorems for twisted orbital integrals. (English summary) **98e:22012**
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Jantzen, Chris Reducibility of certain representations for symplectic and odd-orthogonal groups. (English summary) **98d:22014**
Jayasree, S. (*with* Tandon, R.) Determinant of representations of division algebras of prime degree over local fields. **98j:22027**
Johnson, Roberto Whittaker models for Carayol representations of $\mathrm{GL}_N(F)$. **98k:22071**
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Kudla, Stephen S. (*with* Sweet, W. Jay, Jr.) Degenerate principal series representations for U(n, n). (English summary) **98h:22021**
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Lusztig, George Classification of unipotent representations of simple p-adic groups. **98b:22034**
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— Representations of $GL(n, F)$ in the non-Archimedean case. (*see* **98i:22001**)
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Muić, Goran The unitary dual of p-adic G_2. **98k:22073**
Murnaghan, Fiona Characters of supercuspidal representations of classical groups. (English summary) **98c:22016**
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Bushnell, Colin J. (*with* Henniart, Guy) Local tame lifting for $GL(N)$. I. Simple characters. **98m:11129**
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Gelbart, Stephen ★ Lectures on the Arthur-Selberg trace formula. (English summary) **98d:22017**
— (*with* Rogawski, Jonathan D.; Soudry, David) Endoscopy, theta-liftings, and period integrals for the unitary group in three variables. **98m:11125**
Ginzburg, David (*with* Piatetski-Shapiro, Ilya; Rallis, Stephen) L functions for the orthogonal group. (English summary) **98m:11041**
Guo, Jiandong On a generalization of a result of Waldspurger. (English summary) **98f:11047**
— Uniqueness of generalized Waldspurger model for $GL(2n)$. (English summary) **98m:11043**
Harris, Michael Supercuspidal representations in the cohomology of Drinfel'd upper half spaces; elaboration of Carayol's program. **98i:11100**
Henniart, Guy *see* **Bushnell, Colin J., 98h:11153** *and* **98m:11129**
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Arthur, James The problem of classifying automorphic representations of classical groups. (*see* **98f:00020**)
— Stability and endoscopy: informal motivation. **98j:22029**
Gelbart, Stephen ★ Lectures on the Arthur-Selberg trace formula. (English summary) **98d:22017**
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Kumaduri, Ramasujachary Distinguished representations for unitary groups. (English summary) **98e:22014**
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Prasad, Dipendra Some applications of seesaw duality to branching laws. **98b:22036**
Prasad, Gopal (*with* Rapinchuk, Andrei S.) Computation of the metaplectic kernel. **98i:22026**
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— Principal L-functions for $GL(n)$. **98k:11169**
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Li, Jian-Shu Automorphic forms with degenerate Fourier coefficients. (English summary) **98f:11049**
Mœglin, Colette Non nullité de certains relèvements par séries théta. (English summary) [Nonnullity of certain liftings by theta series] **98m:11044a**
— Quelques propriétés de base des séries théta. (English summary) [Some basic properties of theta series] **98m:11044b**
Piatetski-Shapiro, Ilya *see* **Ginzburg, David; et al., 98m:11041**
Rallis, Stephen *see* **Ginzburg, David; et al., 98a:11056; 98a:11066** *and* **98m:11041**
Reeder, Mark Nonstandard intertwining operators and the structure of unramified principal series representations. (English summary) **98j:22028**
Rogawski, Jonathan D. Functoriality and the Artin conjecture. **98j:11106**
— *see also* **Knapp, Anthony W., 98j:11105** *and* **Gelbart, Stephen; et al., 98m:11125**
Sauvageot, François Principe de densité pour les groupes réductifs. (English and French summaries) [A density principle for reductive groups] **98i:22025**
Shahidi, Freydoon *see* **Kim, Henry H., 98f:11048**
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(Waldspurger, Jean-Loup) *see* **Laumon, Gérard, 98c:11045b**
Watanabe, Takao Global theta liftings of general linear groups. (English summary) **98f:11051**

22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx.}

Boyars'kiĭ, O. M. (*with* Skrypnik, T.) Degenerate orbits of the adjoint representation of orthogonal and unitary groups as algebraic submanifolds. (Ukrainian. English and Ukrainian summaries) **98k:22078**
Izmest'ev, A. A. (*with* Pogosyan, G. S.; Sisakyan, A. N.; Winternitz, Pavel) Contractions of Lie algebras and separation of variables. (English and French summaries) **98c:22017**

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Shirokov, I. V. Construction of Lie algebras of first-order differential operators. (Russian. Russian summary) **98k:22079**
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Winternitz, Pavel *see* **Izmest'ev, A. A.; et al., 98c:22017**

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Abe, Kōjun (*with* Yokota, Ichiro) Realization of spaces $E_6/(\mathrm{U}(1)\mathrm{Spin}(10))$, $E_7/(\mathrm{U}(1)E_6)$, $E_8/(\mathrm{U}(1)E_7)$ and their volumes. **98k:53068**
Adams, M. R. (*with* Harnad, John; Hurtubise, Jacques) Darboux coordinates on coadjoint orbits of Lie algebras. (English summary) **98g:58069**
Arutyunov, Gleb E. (*with* Medvedev, P. B.) On Poisson-Lie structure on the external algebra of the classical Lie groups. (English summary) **98e:81067**
Bajo, Ignacio Prederivations of Lie algebras and isometries of bi-invariant Lie groups. (English summary) **98h:53100**
Benson, Chal (*with* Jenkins, Joe; Lipsman, Ronald L.; Ratcliff, Gail) A geometric criterion for Gelfand pairs associated with the Heisenberg group. (English summary) **98i:22012**
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Canas da Silva, A. (*with* Guillemin, Victor) On the Kostant multiplicity formula for group actions with non-isolated fixed points. **98a:58151**
Cartier, Pierre Some fundamental techniques in the theory of integrable systems. **98a:58066**
Chen, Zhong Hu Basic cases for split G_2. (Chinese)
Cotton, Peter (*with* Dooley, Anthony H.) Contraction of an adapted functional calculus. (English summary) **98f:22012**
Dancer, Andrew S. (*with* Swann, Andrew) Hyper-Kähler metrics of cohomogeneity one. (English summary) **98a:53066**
Djoković, Dragomir Ž. (*with* Hofmann, Karl H.) The surjectivity question for the exponential function of real Lie groups: a status report. (English summary) **98m:22008**
Dobrev, V. K. q-difference intertwining operators and q-conformal invariant equations. (English summary) **98a:81078**
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Fernandez, Javier Alejandro (*with* Zuccalli, Marcela) On Lie algebra extensions in a symplectic framework. (English summary) **98f:58081**
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Lu, Guozhen (*with* Wei, Juncheng) On positive entire solutions to the Yamabe-type problem on the Heisenberg and stratified groups. (English summary) **98k:35023**
Lu, Jiang-Hua Poisson homogeneous spaces and Lie algebroids associated to Poisson actions. **98d:58204**
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Martynova, L. A. Normal subgroups of unipotent subgroups of Chevalley groups of type E_6, E_7 and E_8. (Russian. Russian summary) **98b:20071**
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Tirao, Juan A. On the structure of the classifying ring of $\mathrm{SO}(n, 1)$ and $\mathrm{SU}(n, 1)$. (English summary) **98j:22023**
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Zhdanov, R. Z. Quasi-exactly solvable matrix models. (English summary) **98g:81055**
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22E65 Infinite-dimensional Lie groups and their Lie algebras [see also 17B65, 58B25, 58H05]

Banyaga, Augustin ★ The structure of classical diffeomorphism groups. (English summary) **98h:22024**
Brylinski, Jean-Luc Coadjoint orbits of central extensions of gauge groups. (English summary) **98m:22025**
Frenkel, Igor B. (*with* Khesin, Boris A.) Four-dimensional realization of two-dimensional current groups. (English summary) **98c:22018**
Goldin, Gerald A. Diffeomorphism group representations and quantum nonlinearity: gauge transformations and measurement. (English summary) **98c:22019**
Guieu, Laurent Nombre de rotation, structures géométriques sur un cercle et groupe de Bott-Virasoro. (English and French summaries) [Rotation number, geometric structures on a circle and Bott-Virasoro group] **98b:22037**
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Jensen, Ole Rask (*with* Nielsen, Erik Bjerrum) A Bose-Fock space quantization of the Witt algebra. (English summary) **98b:22038**
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Khesin, Boris A. *see* **Frenkel, Igor B., 98c:22018**
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Cho, Yong Min Dynamical symmetries of string field theory. (English summary) **98f:81246**
Coşkun, Erdal Differentiable functions and the generators on a Hilbert-Lie group. (English and Turkish summaries) **98k:60012**
Dvorina, M. M. *see* **Gritsenko, V. I.; et al., 98b:35091**
Eichhorn, Jürgen (*with* Heber, Gerd) The configuration space of gauge theory on open manifolds of bounded geometry. (English summary) **98d:58020**
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Lee, Bum-Hoon *see* **Yang, Hyun Seok, 98i:81254**
van de Leur, Johan The vector k-constrained KP hierarchy and Sato's Grassmannian. (English summary) **98j:58055**
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Ovsienko, V. Yu. (*with* Roger, Claude) Extensions of the Virasoro group and the Virasoro algebra by means of modules of tensor densities on S^1. (Russian) **98c:17024**
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Robart, Thierry (*with* Kamran, Niky) Sur la théorie locale des pseudogroupes de transformations continus infinis. I. [Local theory of infinite-dimensional continuous transformation pseudogroups. I] **98h:58208**
Roger, Claude *see* **Ovsienko, V. Yu., 98c:17024**
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Stoytchev, Orlin Irreducible representations of current algebras in two dimensions. (English summary) **98k:81098**
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Taniguchi, Setsuo Almost complex structures on path groups. (English summary) **98f:58017**
Vershik, A. M. *see* **Olshanskiĭ, Grigoriĭ, 98e:28015**

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22E67 Loop groups and related constructions, group-theoretic treatment [see also 58D05]

Malliavin, Paul Distributions invariantes sur les groupes de chemins. [Invariant distributions on path groups] (*see* **98d:00028**)

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Arutyunov, Gleb E. Geometric construction of the classical r-matrix for the elliptic Calogero-Moser system. (English summary) **98j:58048**
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Léandre, Rémi Hilbert space of spinor fields over the free loop space. **98a:58009**
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Schwarz, Willi Applications of loop groups and standard modules to Jacobians and theta functions of isospectral curves. (English summary) **98m:58067**
Shigekawa, Ichiro (*with* Taniguchi, Setsuo) A Kähler metric on a based loop group and a covariant differentiation. **98j:58009**
Taniguchi, Setsuo *see* **Shigekawa, Ichiro, 98j:58009**

22E70 Applications of Lie groups to physics; explicit representations [see also 81R05, 81R10]

Arratia, Oscar (*with* Del Olmo, Mariano A.) Contraction of representations of $1 + 1$ kinematical groups and quantization. (English summary) **98c:22020**
Chacón, Elpidio Introduction to group theory. (*see* **98f:81011**)
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Fushchich, Vîl'gel'm Îlîich (*with* Lagno, Viktor Ivanovich) On new nonlinear equations that are invariant under the Poincaré group in two-dimensional space-time. (Ukrainian. English summary) **98f:22025**
Hambli, Noureddine (*with* Sharp, R. T.) On character generators. (English summary) **98k:22083**
Kawazoe, Takeshi Wavelet transform associated to an induced representation of $SL(n + 2, \mathbf{R})$. (English and French summaries) **98g:22009**
Lagno, Viktor Ivanovich *see* **Fushchich, Vîl'gel'm Îlîich, 98f:22025**
Mir-Kasimov, R. M. The factorization method for the differential-difference relativistic Schrödinger equation and q-deformations. (English summary) **98b:22040**
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Ali, S. Twareque (*with* Gazeau, Jean Pierre; Karim, Mohammed Rezaul) Frames, the β-duality in Minkowski space and spin coherent states. (English summary) **98c:81092**
Antippa, A. F. On the Lie algebra of the rotation group. (English summary) **98f:81088**
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Athanasiu, G. G. (*with* Floratos, E. G.; Nicolis, S.) Holomorphic quantization on the torus and finite quantum mechanics. (English summary) **98c:81104**
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Bantay, Peter (*with* Zala, G.) Ultrametric matrices and representation theory. (English summary) **98k:82088**
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El Gradechi, Anúne M. (*with* Nieto, Luis M.) Supercoherent states, super-Kähler geometry and geometric quantization. (English summary) **98c:58064**
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Figueroa-O'Farrill, José M. (*with* Stanciu, Sonia) Non-reductive WZW models and their CFTs. II. $N = 1$ and $N = 2$ cosets. (English summary) **98j:81311**
Filippov, G. F. (*with* Lisetskyi, A. F.; Draayer, J. P.) Microscopic $SU_\eta(3) \times SU_\zeta(3)$ interpretation of a two triaxial rotor model. (English summary) **98m:81213**
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22E99 None of the above, but in this section

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26–XX Real functions [see also 54C30]

26–01 Instructional exposition (textbooks, tutorial papers, etc.)

Andrews, George E. The geometric series in calculus.
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Fichtenholz, G. M. ★ Rachunek różniczkowy i całkowy. Tom 1. (Polish. Polish summary) [Differential and integral calculus. Vol. 1]
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Gillman, Leonard Rigor in calculus. **98g:26002**
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Hijab, Omar ★ Introduction to calculus and classical analysis. (English summary) **98e:26001**
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Matthews, Paul C. ★ Vector calculus. (English summary)
(Piegat, Edward) *see* **Fichtenholz, G. M.**
Rudin, Walter ★ Podstawy analizy matematycznej. (Polish. Polish summary) [Principles of mathematical analysis]
Stirling, David S. G. ★ Mathematical analysis and proof. (English summary)
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Dobbs, David E. Limits along curves determine limits. (English summary) **98g:26013**
(Golub, Gene H.) *see* **Bellman, Richard, 98a:01021**
Hairer, E. (*with* Wanner, G.) ★ Analysis by its history. (English summary) **98g:01008**
Lang, Serge ★ Undergraduate analysis. (English summary) **98h:00002**
Lieb, Elliott H. (*with* Loss, Michael) ★ Analysis. (English summary) **98b:00004**
Loss, Michael *see* **Lieb, Elliott H., 98b:00004**
Nielsen, Ole A. ★ An introduction to integration and measure theory. **98j:28002**
(Raĭkov, D. A.) *see* **Spivak, Michael David, 98f:58001**
Reed, Michael C. ★ Fundamental ideas of analysis. **98g:00003**
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26–03 Historical (must also be assigned at least one classification number from Section 01)

Fink, A. M. Shapiro's inequality. (English summary) **98m:26001**

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Burkill, John Charles *see* **Pitt, H. R., 98i:01033**
Biography:
Burkill, John Charles *see* **Pitt, H. R., 98i:01033**
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26–04 Explicit machine computation and programs (not the theory of computation or programming)

Mulders, Thom A note on subresultants and the Lazard/Rioboo/Trager formula in rational function integration. (English summary) **98c:26001**

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Espinosa, Fernando Hitt Researching a problem of convergence with Mathematica: history and visualization of a mathematical idea. (English summary)

26–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 26–06

(Carpinteri, A.) *see* **Fractals and fractional calculus in continuum mechanics, 98k:73001**
(Mainardi, Francesco) *see* **Fractals and fractional calculus in continuum mechanics, 98k:73001**
(Milovanović, Gradimir V.) *see* **Recent progress in inequalities, 98k:00021**
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Recent progress in inequalities ★ Recent progress in inequalities. **98k:00021**
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26Axx Functions of one variable

26A03 Foundations: limits and generalizations, elementary topology of the line

Bărbosu, Dan (*with* Zelina, I.) About the calculus of some limits.
Hilger, Stefan Differential and difference calculus—unified! (*see* **98i:00031**)
Swann, Howard Commentary on rethinking rigor in calculus: the role of the mean value theorem. **98a:26002**
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Fridy, J. A. (*with* Orhan, C.) Statistical core theorems. (English summary) **98c:40004**
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Pyrih, Pavel Normal spaces and the Lusin-Menchoff property. (English summary) **98i:54003**

26A06 One-variable calculus

Barry, P. D. On arc length.
Bjelica, Momčilo Fixed points and inequalities. **98j:26001**
Elias, Uri Integral means and Pólya factorizations. (English summary) **98k:26002**
Kupka, Joseph A quadratic trio.
Waterman, Daniel An integral mean value theorem for regulated functions. **98h:26001**
Weintraub, Steven H. Early transcendentals. **98h:26002**

Items with secondary classifications in 26A06

Gillman, Leonard Rigor in calculus. **98g:26002**
Páles, Zsolt Notes on mean value theorems. **98i:26006**
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26A09 Elementary functions

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English, Lars *see* **Ahlgren, Scott; et al.**
Merkle, Milan Inequalities for residuals of power expansions for the exponential function and completely monotone functions. (English summary) **98c:26002**
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Usó, J. L. *see* **Villacampa, Y.; et al., 98h:26003**
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Items with secondary classifications in 26A09

Weintraub, Steven H. Early transcendentals. **98h:26002**

26A12 Rate of growth of functions, orders of infinity, slowly varying functions [see also 26A48]

Blais, François Asymptotique dans un corps de Hardy. (English and French summaries) [Asymptotics in a Hardy field] **98k:26003**
Božin, Vladimir *see* **Đurčić, Dragan**, **98k:26004**
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Duszyński, Zbigniew On the function of oscillation. **98f:26001**

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Böttcher, Albrecht (*with* Karlovich, Yu. I.) Submultiplicative functions and spectral theory of Toeplitz operators. (English summary) **98m:47032**
Inoue, Akihiko Regularly varying correlation functions and KMO-Langevin equations. (English summary) **98j:60091**
Karlovich, Yu. I. *see* **Böttcher, Albrecht**, **98m:47032**
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26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27.}

Aversa, V. (*with* Wilczynski, Władysław) Classes of continuous functions. (English summary) **98a:26004**
Balcerzak, Marek (*with* Ciesielski, Krzysztof[2]; Natkaniec, Tomasz) Sierpiński-Zygmund functions that are Darboux, almost continuous, or have a perfect road. (English summary) **98k:26005**
Ciesielski, Krzysztof[2] *see* **Balcerzak, Marek; et al.**, **98k:26005**
Csörnyei, Marianna On the chord set of continuous functions. **98g:26003**
Filipczak, Małgorzata Some remarks on Foran's sequence conditions. (English summary) **98i:26002**
Finta, Zoltán On some properties of a class of functions.
Gibson, Richard G. (*with* Natkaniec, Tomasz) Darboux like functions. **98h:26004**
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— On strong quasi-continuity points. (English summary) **98i:26003**
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Hille, Jürgen Smoothness properties of real-valued functions based on their oscillation. **98f:26002**
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Velleman, Daniel J. Characterizing continuity. **98e:26002**
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Wilczynski, Władysław *see* **Aversa, V.**, **98a:26004**

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Baird, B. B. (*with* Magill, Kenneth D., Jr.) Green's $\mathscr{R}$, $\mathscr{D}$ and $\mathscr{J}$ relations for generalized polynomials. **98h:20111**
Banaszewski, Dariusz Universally bad Darboux functions in the class of additive functions. (English summary) **98g:26006**
Cao, Jiling (*with* Dontchev, Julian) On some weaker forms of continuity for multifunctions. (English summary) **98h:54017**
Darji, Udayan B. Countable decomposition of derivatives and Baire 1 functions. (English summary) **98b:26003**
Diab, F. M. On the differential properties of complex continuous mappings. (English and Arabic summaries)
Dontchev, Julian *see* **Cao, Jiling**, **98h:54017**
Esrafilian, Ebrahim (*with* Shidfar, Afima Abdullah) Hölder continuity of Cellerier's non-differentiable function. (English summary) **98c:26003**
Finta, Béla A characterization of some sets of the real line by the fixed point property.
Katafiasz, Aleksandra (*with* Natkaniec, Tomasz) A new variant of Blumberg's theorem. (English summary) **98d:54032**
Laković, Bosa *see* **Potapov, M. K.; et al.**, **98i:41018**
Magill, Kenneth D., Jr. *see* **Baird, B. B.**, **98h:20111**
Mimna, R. A. A note on separate continuity and connectivity properties. (English summary) **98e:54013**
Natkaniec, Tomasz *see* **Katafiasz, Aleksandra**, **98d:54032**
Pawlak, Ryszard Jerzy On the topological properties of the spaces $\mathscr{A}_u$ and $\mathscr{A}_p$ formed by almost continuous functions. (English summary) **98j:54028**
Potapov, M. K. (*with* Laković, Bosa; Simonov, B. V.) On estimates for the moduli of smoothness of functions that have a fractional derivative. (Russian) **98i:41018**
Sakálová, Katarína On structural properties of graph continuous functions. (English summary) **98j:54023**
Shidfar, Afima Abdullah *see* **Esrafilian, Ebrahim**, **98c:26003**
Simonov, B. V. *see* **Potapov, M. K.; et al.**, **98i:41018**
Száz, Árpád Moduli of continuity and spaces of functions. (English summary) **98f:54013**
Vinogradov, O. L. Some inequalities with sharp constants for the second modulus of continuity. (Russian) **98f:41011**

26A16 Lipschitz (Hölder) classes

Items with secondary classifications in 26A16

Batsuren, S. On the inverse function theorem for Lipschitzian mappings. (English summary) **98a:58017**
Demyanov, V. F. (*with* Pallaschke, Diethard) Point derivations for Lipschitz functions and Clarke's generalized derivative. (English summary) **98m:49036**
Fan, Xian-ling The regularity of Lagrangians $f(x,\xi)=|\xi|^{\alpha(x)}$ with Hölder exponents $\alpha(x)$. (English summary) **98e:49092**
Matoušek, Jiří On Lipschitz mappings onto a square. (English summary) **98g:28009**
Morayne, M. (*with* Ryll-Nardzewski, C.) Superpositions with differences of semicontinuous functions. (English summary) **98g:26004**
Pallaschke, Diethard *see* **Demyanov, V. F.**, **98m:49036**
Ran, André C. M. (*with* Rodman, Leiba) Rate of stability of solutions of matrix polynomial and quadratic equations. (English summary) **98b:15016**
Rodman, Leiba *see* **Ran, André C. M.**, **98b:15016**
Ryll-Nardzewski, C. *see* **Morayne, M.**, **98g:26004**
Tricot, Claude Function norms and fractal dimension. (English summary) **98d:28004**

26A18 Iteration [see also 39B12, 47H10, 54H25, 58F08, 58F13]

Málek, Michal A counterexample of an extremely chaotic function. (English summary)
Ye, Jun[1] The number of solutions to a function iteration problem. (Chinese. English and Chinese summaries)

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Balibrea Gallego, Francisco (*with* La Paz, Claudio) Omega-limit sets for smooth maps. (English summary) **98d:58112**
— (*with* La Paz, Claudio) Turbulent maps and their ω-limit sets. (English summary) **98k:58154**
Beyer, W. A. (*with* Louck, James D.) Transfinite function iteration and surreal numbers. (English summary) **98i:39005**
Grinč, Martin A nonchaotic map with an infinite set $\Omega(f)\setminus\omega(f)$. (English summary) **98m:58087**
Hofbauer, Franz The fractal dimension of invariant subsets for piecewise monotonic maps on the interval. (English summary) **98b:28032**
— The box dimension of completely invariant subsets for expanding piecewise monotonic transformations. (English summary) **98b:28033**
Jarczyk, Witold On an equation of linear iteration. (English summary) **98a:39023**
Kato, Hisao On scrambled sets and a theorem of Kuratowski on independent sets. (English summary) **98h:54055**
Kawamura, Shinzo Covariant representations associated with chaotic dynamical systems. (English summary) **98e:46084**
La Paz, Claudio *see* **Balibrea Gallego, Francisco**, **98d:58112** *and* **98k:58154**
Liao, Gongfu A characterization of the solutions of p-order Feigenbaum's functional equation with topological entropy 0. (English summary) **98c:39007**
Louck, James D. *see* **Beyer, W. A.**, **98i:39005**
Mai, Jie Hua Continuous maps whose Li-Yorke mixing set is the whole space. (Chinese)
Matsumoto, Shuichi *see* **Tamashiro, Tsuyoshi**, **98m:58036**
Nápoles-Valdés, Juan E. A note on Sharkovskiĭ's theorem. (Spanish. English and Spanish summaries)
Sun, Tai Xiang *see* **Xi, Hong Jian**
Tamashiro, Tsuyoshi (*with* Matsumoto, Shuichi) A note on iterations of mappings on an interval. (English summary) **98m:58036**
Williams, Scott W. Some dynamics on the irrationals. (English summary) **98m:54047**
Xi, Hong Jian (*with* Sun, Tai Xiang) Admissible sequences and iterative solutions of a class of self-maps of the unit interval. (Chinese. English and Chinese summaries)
Zhang, Wei Nian PM functions, their characteristic intervals and iterative roots. (English summary) **98k:39013**

26A21 Classification of real functions; Baire classification of sets and functions [see also 04A15, 28A05, 54C50]

Banaszewski, Dariusz On the continuous (A,B)-Darboux functions. **98a:26008**
Carrese, Rosalba (*with* Łazàrow, Ewa) Baire classes of some generalized partial derivatives. (English summary) **98h:26007**
Chaatit, Fouad (*with* Mascioni, V.; Rosenthal, Haskell Paul) On functions of finite Baire index. (English summary) **98b:26001**
Ciesielski, Krzysztof[2] (*with* Maliszewski, Aleksander) Cardinal invariants concerning bounded families of extendable and almost continuous functions. (English summary) **98d:26001**
Darji, Udayan B. (*with* Evans, Michael Jon; Freiling, Chris; O'Malley, Richard J.) Fine properties of Baire one functions. (English summary) **98k:26007**
Evans, Michael Jon *see* **Darji, Udayan B.; et al.**, **98k:26007**
Freiling, Chris *see* **Darji, Udayan B.; et al.**, **98k:26007**
Łazarow, Ewa *see* **Carrese, Rosalba**, **98h:26007**
Maliszewski, Aleksander On algebra generated by derivatives of interval functions. **98g:26005**
— *see also* **Ciesielski, Krzysztof[2]**, **98d:26001**

Mascioni, V. *see* **Chaatit, Fouad; et al., 98b:26001**
O'Malley, Richard J. *see* **Darji, Udayan B.; et al., 98k:26007**
Rosenthal, Haskell Paul *see* **Chaatit, Fouad; et al., 98b:26001**

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Bankston, Paul Topological measures of systems of sets. (English summary) **98d:54002**
Darji, Udayan B. Countable decomposition of derivatives and Baire 1 functions. (English summary) **98b:26003**
Ferrer, Jesús A property of connected Baire spaces. (English summary) **98b:54041**
Gibson, Richard G. (*with* Natkaniec, Tomasz) Darboux like functions. **98h:26004**
Künzi, Hans-Peter A. (*with* Wajch, Eliza) Borel classification via quasi-metrics. (English summary) **98d:54069**
Morayne, M. (*with* Ryll-Nardzewski, C.) Superpositions with differences of semicontinuous functions. (English summary) **98g:26004**
Natkaniec, Tomasz *see* **Gibson, Richard G., 98h:26004**
Ryll-Nardzewski, C. *see* **Morayne, M., 98g:26004**
Todorčević, Stevo ★ Topics in topology. **98g:54002**
Wajch, Eliza *see* **Künzi, Hans-Peter A., 98d:54069**
Zajíček, Luděk Products of non-σ-porous sets and Foran systems. **98b:04002**

26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [see also 28A15]

Banaszewski, Dariusz Universally bad Darboux functions in the class of additive functions. (English summary) **98g:26006**
Braza, Peter A. *see* **Tong, Jingcheng, 98i:26007**
Buczolich, Zoltán (*with* Weil, Clifford E.) Extending Peano differentiable functions. (English summary) **98b:26002**
Bullen, P. S. (*with* Sarkhel, D. N.) Properties of derivative-like functions. (English summary) **98g:26007**
Darji, Udayan B. Countable decomposition of derivatives and Baire 1 functions. (English summary) **98b:26003**
Ene, Vasile Local systems and Taylor's theorem. (English summary) **98g:26008**
— On Borel measurable functions that are VBG and (N). (English summary) **98i:26005**
Grande, Zbigniew On equi-derivatives. (English summary) **98e:26003**
Lahiri, Indrajit A note on mean value property and monotonicity. **98e:26004**
Maliszewski, Aleksander On the uniform limits of approximately differentiable functions. (English summary) **98k:26008**
Páles, Zsolt Notes on mean value theorems. **98i:26006**
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Pop, Maria S. (*with* Sándor, József) On certain applications of Cauchy's mean value theorem. **98e:26006**
Sándor, József *see* **Pop, Maria S., 98e:26006**
Sarkhel, D. N. *see* **Bullen, P. S., 98g:26007**
Stokolos, A. M. On the rate of strong differentiation of integrals. (Russian. Russian summary) **98d:26002**
Tong, Jingcheng (*with* Braza, Peter A.) A converse of the mean value theorem. **98i:26007**
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Zhang, Shu Yi A note on the generalized mean value theorem. (Chinese. English and Chinese summaries) **98a:26009**

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Amanzhaev, G. G. An effective construction of a discrete analogue of functions with a bounded second derivative. (Russian. Russian summary) **98k:41026**
Aouf, M. K. (*with* Srivastava, Hari M.) A certain subclass of convex functions with negative coefficients. (English summary) **98b:26004**
— *see also* **Chen, Ming-Po, 98f:30011**
Bantaş, Gheorghe (*with* Turinici, Mihai) Remarks about some mean value theorems. (Romanian summary)
Chen, Ming-Po (*with* Aouf, M. K.) On certain fractional operators for certain classes of multivalent functions with negative coefficients. (English summary) **98f:30011**
Dindoš, Martin Limits of transfinite convergent sequences of derivatives. (English summary) **98b:03071**
Ferreira, F. F. (*with* Pinto, A. A.) Existence of eigenvalues for (uaa) Markov maps. (English summary) **98j:58091**
Maliszewski, Aleksander On algebra generated by derivatives of interval functions. **98g:26005**
Marti, Kurt Differentiation formulas for probability functions: the transformation method. **98a:90071**
Pinto, A. A. *see* **Ferreira, F. F., 98j:58091**
Srivastava, Hari M. *see* **Aouf, M. K., 98b:26004**
Swann, Howard Commentary on rethinking rigor in calculus: the role of the mean value theorem. **98a:26002**
Tucker, Thomas W. Rethinking rigor in calculus: the role of the mean value theorem. **98a:26001**
Turinici, Mihai Differential mean value properties for half-continuous functions. **98h:46043**
— *see also* **Bantaş, Gheorghe**

26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

Esrafilian, Ebrahim (*with* Shidfar, Afima Abdullah) Hölder continuity of Cellerier's nondifferentiable function. (English summary) **98c:26003**
Shidfar, Afima Abdullah *see* **Esrafilian, Ebrahim, 98c:26003**
Ullrich, Peter Anmerkungen zum "Riemannschen Beispiel" $\sum_{n=1}^{\infty}(\sin n^2x)/n^2$ einer stetigen, nicht differenzierbaren Funktion. (English summary) [Remarks on the "Riemann example" $\sum_{n=1}^{\infty}(\sin n^2x)/n^2$ of a continuous, nondifferentiable function] **98i:26008**

Items with secondary classifications in 26A27

Brown, Gavin (*with* Yin, Qinghe) Box dimension for graphs of fractal functions. (English summary) **98k:28008**
Chen, Shirong (*with* Li, Jalong) Fractal properties of hyperbolic curves. (English summary) **98i:28011**
Kairies, Hans-Heinrich (*with* Rose, Michael Hugo) Funktionalgleichungen und Charakterisierungen für die Riemannsche Funktion. (English summary) [Functional equations and characterizations for the Riemann function] **98b:39020**
Li, Jalong *see* **Chen, Shirong, 98i:28011**
Peitgen, Heinz-Otto (*with* Rodenhausen, Anna; Skordev, Gencho) Self-affine curves and sequential machines. **98j:68114**
Rodenhausen, Anna *see* **Peitgen, Heinz-Otto; et al., 98j:68114**
Rose, Michael Hugo *see* **Kairies, Hans-Heinrich, 98b:39020**
Skordev, Gencho *see* **Peitgen, Heinz-Otto; et al., 98j:68114**
Sun, Dao Chun (*with* Wen, Zhi Ying) The Hausdorff dimension of graph of a class of Weierstrass functions. (English summary) **98h:28005**
Wen, Zhi Ying *see* **Sun, Dao Chun, 98h:28005**
Yin, Qinghe *see* **Brown, Gavin, 98k:28008**

26A30 Singular functions, Cantor functions, functions with other special properties

Keleti, T. On the differences and sums of periodic measurable functions. **98e:26007**
Mauldin, R. Daniel (*with* Simon, Károly) The equivalence of some Bernoulli convolutions to Lebesgue measure. (English summary) **98i:26009**
Simon, Károly *see* **Mauldin, R. Daniel, 98i:26009**

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Boyanov, T. P. On the modulus of continuity of functions defined on the snowflake von Koch's curve.
Duszyński, Zbigniew On the function of oscillation. **98f:26001**
Fu, Shusheng On some theorems in fractional calculus for singular functions. (English summary) **98d:26003**
Kairies, Hans-Heinrich (*with* Rose, Michael Hugo) Funktionalgleichungen und Charakterisierungen für die Riemannsche Funktion. (English summary) [Functional equations and characterizations for the Riemann function] **98b:39020**
Morawiec, Janusz On a linear functional equation. (English summary) **98e:39009**
Peitgen, Heinz-Otto (*with* Rodenhausen, Anna; Skordev, Gencho) Self-affine curves and sequential machines. **98j:68114**
Peres, Yuval (*with* Solomyak, Boris) Self-similar measures and intersections of Cantor sets. (English summary) **98m:26009**
Rodenhausen, Anna *see* **Peitgen, Heinz-Otto; et al., 98j:68114**
Rose, Michael Hugo *see* **Kairies, Hans-Heinrich, 98b:39020**
Samons, J. *see* **Tong, Jingcheng, 98m:54039**
Skordev, Gencho *see* **Peitgen, Heinz-Otto; et al., 98j:68114**
Solomyak, Boris *see* **Peres, Yuval, 98m:26009**
Tong, Jingcheng (*with* Samons, J.) Fibonacci sequence and Cantor's ternary set. (English summary) **98m:54039**

26A33 Fractional derivatives and integrals

Al-Saqabi, Bader N. *see* **Kiryakova, Virginia S., 98i:26010**
Aouf, M. K. (*with* Srivastava, Hari M.) A certain subclass of convex functions with negative coefficients. (English summary) **98b:26004**
Banerji, P. K. (*with* Choudhary, Sudipto) Fractional integral formulae involving general class of polynomials. (English summary)
— (*with* Sinha, Deepali; Saigo, Megumi) Asymptotic representation of Weyl fractional integrals. (English summary) **98k:26009**
— *see also* **Vyas, D. N., 98i:26014**
Ben Adda, Fayçal Fourier's transform and Nishimoto fractional calculus. (English summary) **98g:26009**
— Geometric interpretation of the fractional derivative. (English summary) **98f:26004**
Caputo, Michele Mean fractional-order-derivatives differential equations and filters. (English and Italian summaries) **98c:26004**
Chin, Erh-Tsung *see* **Tu, Shih-Tong; et al., 98k:26012** *and* **98k:26013**
Choudhary, Sudipto *see* **Banerji, P. K.**
Chyan, Ding-Kuo *see* **Tu, Shih-Tong; et al., 98g:26010**; **98i:26013**; **98j:26004** *and* **98k:26012**
El-Sayed, Ahmed M. A. Fractional calculus and Laguerre polynomials of fractional orders. (English summary) **98h:26008**
Fu, Shusheng On some theorems in fractional calculus for singular functions. (English summary) **98d:26003**
Fugère, B. J. *see* **Tremblay, Richard, 98m:26003**
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Hammond, J. K. *see* **Moshrefi-Torbati, M.**
Karapetyants, Nikolai K. (*with* Ginzburg, A. I.) Lebesgue points and fractional integrals. (Russian) **98f:26005**
Kilbas, A. A. (*with* Saigo, Megumi) Generalized fractional integrals with the Fox H-function in the spaces $F_{p,\mu}$ and $F'_{p,\mu}$. (Russian. English and Russian summaries) **98k:26010**
Kiryakova, Virginia S. (*with* Al-Saqabi, Bader N.) Solutions of Erdelyi-Kober fractional integral, differential and differintegral equations of second kind. **98i:26010**
Kochubei, A. N. Additive and multiplicative fractional differentiations over the field of p-adic numbers. **98j:26002**
Kusano, Takaši Studies on mathematical analysis of nonlinear structures. (Japanese)
Luo, Wen-Chieh *see* **Tu, Shih-Tong; et al., 98j:26004** *and* **98k:26013**
Matera, Josefina (*with* Prieto, A. I.; Salinas de Romero, Susana; Nishimoto, Katsuyuki) N-fractional calculus of some elementary functions. (English summary)

— *see also* **Salinas de Romero, Susana; et al.**
McNaughton, Alastair The locus of the zeros of a polynomial under closed path fractional differentiation. (English summary) **98i:26011**
Miller, Gary R. (*with* Thaheem, A. B.) Derivatives of matrix order. (English summary) **98h:26009**
Moshrefi-Torbati, M. (*with* Hammond, J. K.) Physical and geometrical interpretation of fractional operators. (English summary)
Nishimoto, Katsuyuki ★ Fractional calculus. Vol. V. **98b:26005**
— N-transformation and elementary functions. (English summary) **98b:26006**
— Operator N^{ν} method to the homogeneous Gauss equation. (English summary)
— On $(e^{z}\cdot z^{m})_{-n}$ and $(z^{m}\cdot e^{z})_{-n}$ where $m\in\mathbf{Z}_0^+$, $n\in\mathbf{Z}^+$ (a serendipity in N-fractional calculus). (English summary)
— Super-particular and ultra-general solutions to the nonhomogeneous Gauss equation. (English summary)
— Kummer's twenty-four functions and N-fractional calculus. (English summary) (*see* **98i:00028**)
— N-method to Hermite equations. (English summary)
— (*with* Wu, Tsu-Chen) On $(z^{m}\cdot\log z)_{-n}$ and $(e^{mz}\cdot\log z)_{-n}$ where $m\in\mathbf{Z}_0^+$, $n\in\mathbf{Z}^+$ (a serendipity in N-fractional calculus). (English summary)
— *see also* **Matera, Josefina; et al.** *and* **Salinas de Romero, Susana; et al.**
Peña, Carlos On some classes of operators derived from iterated Riemann-Liouville fractional integrals. (English summary) **98k:26011**
Prieto, A. I. *see* **Matera, Josefina; et al.**
Raina, R. K. *see* **Vũ Kim Tuân; et al., 98k:26014**
Ren, Fuyao (*with* Yu, Zuguo) Fractional integral associated to cookie-cutter set and its physical interpretation. (English summary) **98i:26012**
Ronghe, A. K. On fractional differential operator involving the I-function. (English summary)
Rutman, R. S. On physical interpretations of fractional integration and differentiation. (English and Russian summaries)
Saîgo, Megumi *see* **Banerji, P. K.; et al., 98k:26009**; **Kilbas, A. A., 98k:26010** *and* **Vũ Kim Tuân; et al., 98k:26014**
Salinas de Romero, Susana (*with* Matera, Josefina; Nishimoto, Katsuyuki) N-fractional calculus of some elementary functions. III. (English summary)
— *see also* **Matera, Josefina; et al.**
Saxena, Ram Kishore (*with* Soni, M. K.) On unified fractional integration operators. (English summary) **98j:26003**
Sinha, Deepali *see* **Banerji, P. K.; et al., 98k:26009**
Soni, M. K. *see* **Saxena, Ram Kishore, 98j:26003**
Srivastava, Hari M. *see* **Aouf, M. K., 98b:26004** *and* **Tu, Shih-Tong; et al., 98i:26013**
Stiassnie, M. A look at fractal functions through their fractional derivatives. (English summary)
Thaheem, A. B. *see* **Miller, Gary R., 98h:26009**
Tremblay, Richard (*with* Fugère, B. J.) Commutativity of the fractional operator $Z^{\alpha}D_z^{\beta}Z^{\gamma}$ and a generalization of a Glaisher's result. (English summary) **98m:26003**
Tu, Shih-Tong (*with* Chyan, Ding-Kuo; Srivastava, Hari M.) Certain operators of fractional calculus and their applications associated with logarithmic and digamma functions. (English summary) **98i:26013**
— (*with* Chyan, Ding-Kuo; Wu, Tsu-Chen) Method for finding $D_z^{-n}\log^{k}z$ via fractional calculus and Psi functions. (English summary) **98g:26010**
— (*with* Chyan, Ding-Kuo; Luo, Wen-Chieh) Some solutions to the nonhomogeneous Jacobi equations via fractional calculus operator N^{μ} method. (English summary) **98j:26004**
— (*with* Chyan, Ding-Kuo; Chin, Erh-Tsung) Solutions of Gegenbauer and Tchebycheff equations via operator N^{μ} method. (English summary) **98k:26012**
— (*with* Luo, Wen-Chieh; Chin, Erh-Tsung) Solutions of a class of n-th order ordinary and partial differential equations via fractional calculus. (English summary) **98k:26013**
Vũ Kim Tuân (*with* Raina, R. K.; Saîgo, Megumi) Multidimensional fractional calculus operators involving the Gauss hypergeometric function. (English summary) **98k:26014**
Vyas, D. N. (*with* Banerji, P. K.) On Dirichlet averages. (English summary) **98i:26014**
Wu, Tsu-Chen *see* **Tu, Shih-Tong; et al., 98g:26010** *and* **Nishimoto, Katsuyuki**
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Ahuja, Gopi Changing the variable in convolution of distributions. (English summary) **98g:46048**
Ali, Ismail *see* **Kalla, Shyam L., 98g:34017**
Al-Saqabi, Bader N. (*with* Vũ Kim Tuân) Solution of a fractional differintegral equation. (English summary) **98k:45008**
— *see also* **Kiryakova, Virginia S., 98c:34102**
Aouf, M. K. (*with* Chen, Ming-Po) Some applications of fractional calculus operators to a class of univalent functions with negative and missing coefficients. (English summary) **98f:30008**
— (*with* Darwish, H. E.; Srivastava, Hari M.) Some applications of fractional calculus operators associated with a certain class of starlike functions with negative coefficients. (English summary) **98h:30012**
Babenko, V. F. Exact inequalities for the norms of intermediate derivatives of half-integer order and some of their applications. (Russian. English summary) **98j:41006**
Bolia, Mamta *see* **Raina, R. K., 98i:30018**
Chen, Ming-Po *see* **Aouf, M. K., 98f:30008**
Choi, Jae Ho Distortion properties of some univalent and convex functions involving a generalized fractional derivative operator. (English summary) **98m:30014**
Chyan, Ding-Kuo *see* **Tu, Shih-Tong, 98h:34007**
Darwish, H. E. *see* **Aouf, M. K.; et al., 98h:30012**
Delbosco, Domenico (*with* Rodino, Luigi) Existence and uniqueness for a nonlinear fractional differential equation. (English summary) **98b:34020**
Dell'Antonio, Gianfausto (*with* Figari, Rodolfo; Teta, Alessandro) A limit evolution problem for time-dependent point interactions. (English summary) **98m:81027**
Diethelm, Kai An algorithm for the numerical solution of differential equations of fractional order. (English summary) **98k:65037**
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Dostanić, Milutin R. (*with* Milinković, Darko Z.) Asymptotic behavior of singular values of certain integral operators. (English summary) **98j:47108**
Dwivedi, A. P. (*with* Pandey, Sarita) Certain five series equations involving the product of "r" generalized Bateman K-functions. (English summary) **98k:33028**
El-Sayed, Ahmed M. A. Fractional differential-difference equations. (English summary) **98e:34143**
— (*with* Gaafar, F. M.) Sturm-Liouville equation of fractional order. (English summary) **98e:34007**
— *see also* **Ibrahim, A. G., 98a:28010**
Figari, Rodolfo *see* **Dell'Antonio, Gianfausto; et al., 98m:81027**
Gaafar, F. M. *see* **El-Sayed, Ahmed M. A., 98e:34007**
Hua, Jianwen (*with* Liu, Liren; Li, Guoqiang) Imaginary angle fractional Fourier transform and its optical implementation. (English summary)
Ibrahim, A. G. (*with* El-Sayed, Ahmed M. A.) Definite integral of fractional order for set-valued functions. (English summary) **98a:28010**
Kalla, Shyam L. (*with* Ali, Ismail) Fractional calculus and its applications to differential equations. (English summary) **98g:34017**
Karapetyants, Nikolai K. (*with* Mussalaeva, Z. U.) On the solvability of an integral equation of fractional order in generalized Hölder classes. (Russian. Russian summary) **98j:45001**
— Local estimates for fractional integral operators and potentials. (English summary) **98j:47113**
Kilbas, A. A. (*with* Repin, Oleg A.; Saîgo, Megumi) Solution in closed form of boundary value problem for degenerate equation of hyperbolic type. (English summary) **98b:35121**
— (*with* Saîgo, Megumi) On solution in closed form of nonlinear integral and differential equations of fractional order. (English summary) **98i:45006**
Kim, Yong Chan (*with* Srivastava, Hari M.) Fractional integral and other linear operators associated with the Gaussian hypergeometric function. (English summary) **98h:30016**
Kiryakova, Virginia S. (*with* Al-Saqabi, Bader N.) Transmutation method for solving Erdélyi-Kober fractional differintegral equations. (English summary) **98c:34102**
Laković, Bosa *see* **Potapov, M. K.; et al., 98i:41018**
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Long, Shun Chao (*with* Wang, Jian[1]) Fractional integrals on Hardy spaces associated with Herz spaces. (English and Chinese summaries) **98g:42030**
Mainardi, Francesco On linear differential equations of fractional order. (English summary) (*see* **98b:00027**)
McBride, Adam C. (*with* Rubin, Boris) Continuity and invertibility of distributional multidimensional fractional integrals. (English summary) **98g:46049**
Milinković, Darko Z. *see* **Dostanić, Milutin R., 98j:47108**
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Nishimoto, Katsuyuki Operator N^{ν} method to a generalized linear second order homogeneous ordinary differential equation. (English summary) **98d:34005**
— Operator N^{ν} method to a generalized linear second order nonhomogeneous ordinary differential equation of Fuchs type. (English summary) **98d:34006**
— Modern form solutions obtained by operator N^{ν} method to a nonhomogeneous constant coefficients ordinary differential equation. (English summary) **98i:34006**
Pandey, Sarita *see* **Dwivedi, A. P., 98k:33028**
Potapov, M. K. (*with* Laković, Bosa; Simonov, B. V.) On estimates for the moduli of smoothness of functions that have a fractional derivative. (Russian) **98i:41018**
Raina, R. K. (*with* Bolia, Mamta) Characterization properties for starlike and convex functions involving a class of fractional integral operators. (English summary) **98i:30018**
— Boundedness properties for a generalized fractional integral operator on a class of p-valent functions. (English summary) **98k:30022**
Ram, Jeta *see* **Saîgo, Megumi; et al., 98b:45003**
Repin, Oleg A. *see* **Kilbas, A. A.; et al., 98b:35121**
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Rubin, Boris ★ Fractional integrals and potentials. (English summary) **98h:42018**
— *see also* **McBride, Adam C., 98g:46049**
Saichev, A. I. (*with* Woyczyński, Wojbor A.) ★ Distributions in the physical and engineering sciences. Vol. 1. (English summary) **98b:00008**
Saîgo, Megumi (*with* Saxena, Ram Kishore; Ram, Jeta) Application of generalized fractional calculus operators in the solution of certain dual integral equations. (English summary) **98b:45003**
— *see also* **Kilbas, A. A.; et al., 98b:35121** *and* **98i:45006**
Saxena, Ram Kishore *see* **Saîgo, Megumi; et al., 98b:45003**
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Tiwari, D. K. Fractional derivative formulae involving the generalized Lauricela function, the generalized polynomials and the multivariable H-function. (English summary)
Tu, Shih-Tong (*with* Chyan, Ding-Kuo) Solutions of some nth order ordinary and partial differential equations by means of fractional calculus. (English summary) **98h:34007**
Vũ Kim Tuân *see* **Al-Saqabi, Bader N., 98k:45008**
Wang, Jian[1] *see* **Long, Shun Chao, 98g:42030**
Woyczyński, Wojbor A. *see* **Saichev, A. I., 98b:00008**
Yakubov, Askhab (*with* Shankishvili, Lamara) Some inequalities for convolution integral transforms. (English summary) **98a:44007**

26A39 Denjoy and Perron integrals, other special integrals

Bianconi, Ricardo On the convergence of the integrals of a truncated Henstock-Kurzweil integrable function. (English summary)
Bongiorno, Benedetto (*with* Di Piazza, Luisa; Skvortsov, Valentin) On continuous major and minor functions for the n-dimensional Perron integral. (English summary) **98b:26007**
Bose, M. K. (*with* Nath, R. K.) Generalizations of the Cesàro-Perron integrals. (English summary) **98e:26008**

Chatterji, Srishti D. Remarques sur l'intégrale de Riemann généralisée. [Remarks on the generalized Riemann integral] **98k:26015**
Di Piazza, Luisa *see* **Bongiorno, Benedetto; et al., 98b:26007**
Duchoň, Miloslav (*with* Riečan, Beloslav) On the Kurzweil-Stieltjes integral in ordered spaces. (English summary) **98m:26004**
Ene, Vasile Riesz type theorems for general integrals. (English summary) **98e:26009**
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Guénard, François *see* **Faure, Claude-Alain, 98m:26005**
Jarník, Jiří Generalized Riemann and Perron integrals and their relations. (English summary) **98k:26016**
— (*with* Kurzweil, Jaroslav) Another Perron type integration in n dimensions as an extension of integration of stepfunctions. (English summary) **98i:26015**
Koroleva, M. P. On a generalization of the Perron integral. (Russian) **98m:26006**
Kurzweil, Jaroslav Nonabsolutely convergent integrals via integral sums in $\mathbf{R}^n$. (English summary) **98m:26007**
— *see also* **Jarník, Jiří, 98i:26015**
Lee, Peng Yee (*with* Zhao, Dongsheng) Upper and lower Henstock integrals. (English summary) **98h:26010**
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Nath, R. K. *see* **Bose, M. K., 98e:26008**
Pfeffer, Washek F. On variations of functions of one real variable. (English summary) **98h:26011**
Riečan, Beloslav *see* **Duchoň, Miloslav, 98m:26004**
Sarkhel, D. N. A unified scale of absolute and non-absolute integrals. (English summary) **98e:26010**
Skvortsov, Valentin A variational measure and a sufficient condition for the differentiability of an additive interval function. (Russian)
— *see also* **Bongiorno, Benedetto; et al., 98b:26007**
Xu, Dong Fu The Cauchy-Harnack extension of the Henstock-Kurzweil integral. **98k:26017**
Zhao, Dongsheng *see* **Lee, Peng Yee, 98h:26010**

Items with secondary classifications in 26A39

Borde, Pascal Théorie unifiée de l'intégrale. [Unified integration theory] **98h:26033**
Dặng Đình Áng (*with* Schmitt, Klaus; Le, Vy Khoi) A multidimensional analogue of the Denjoy-Perron-Henstock-Kurzweil integral. **98e:26013**
Ene, Vasile On Borel measurable functions that are VBG and (N). (English summary) **98i:26005**
Le, Vy Khoi *see* **Dặng Đình Áng; et al., 98e:26013**
Lee, Peng Yee Measurability and the Henstock integral. **98f:28005**
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Schmitt, Klaus *see* **Dặng Đình Áng; et al., 98e:26013**
Tvrdý, Milan Linear bounded functionals on the space of regular regulated functions. (English summary) **98k:46038**

26A42 Integrals of Riemann, Stieltjes and Lebesgue type [see also 28–XX]

Bencze, Mihály *see* **Popovici, Florin, 98h:26012**
D'yachkov, A. M. On the existence of the Stieltjes integral. (Russian) **98a:26010**
Kubota, Yôto Notes on absolutely convergent integration. (English summary) **98b:26009**
Leindler, László Integrability theorems with sign changing coefficients. **98e:26011**
Popovici, Florin (*with* Bencze, Mihály) A new and simple proof of the change of variable formula in the Riemann integral in very general conditions. **98h:26012**
Rivaz, Azim A Riemann integral with values in a metric space. (English summary) (*see* **98h:00035**)
Ruch, Jean-Jacques (*with* Weber, Michel Jean Georges) Quelques résultats dans la théorie des sommes riemanniennes. (English summary) [Some results in the theory of Riemannian sums] **98j:26005**
Rządkowski, G. A remark on convergence of Riemann sums. **98m:26008**
Weber, Michel Jean Georges *see* **Ruch, Jean-Jacques, 98j:26005**
Winter, Benjamin B. Transformations of Lebesgue-Stieltjes integrals. **98b:26010**

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de Amo, E. (*with* Diaz Carrillo, M.) Fubini-Tonelli theorems with local integrals. **98m:28012**
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Borde, Pascal Théorie unifiée de l'intégrale. [Unified integration theory] **98h:26033**
Colzani, Leonardo Approximation of Lebesgue integrals by Riemann sums and lattice points in domains with fractal boundary. (English summary) **98e:11116**
Díaz Carrillo, M. *see* **de Amo, E., 98m:28012**
Di Piazza, Luisa *see* **Bongiorno, Benedetto; et al., 98b:26007**
Jarník, Jiří Generalized Riemann and Perron integrals and their relations. (English summary) **98k:26016**
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Skvortsov, Valentin *see* **Bongiorno, Benedetto; et al., 98b:26007**
Stokolos, A. M. On the rate of strong differentiation of integrals. (Russian. Russian summary) **98d:26002**
Zhao, Dongsheng *see* **Lee, Peng Yee, 98h:26010**
Zhu, Xiao Jie Riemann-Stieltjes integrals of operator-valued functions. (Chinese. English and Chinese summaries) **98c:46085**

26A45 Functions of bounded variation, generalizations

Chistyakov, V. V. On mappings of bounded variation. (English summary) **98c:26006**
Lahiri, Indrajit Points of bounded variation. (English summary) **98b:26011**
Mukhopadhyay, S. N. *see* **Sain, D. N.**
Sain, D. N. (*with* Mukhopadhyay, S. N.) Characterization of functions of bounded kth variation. (English summary)

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Bongiorno, Benedetto (*with* Di Piazza, Luisa; Skvortsov, Valentin) On continuous major and minor functions for the n-dimensional Perron integral. (English summary) **98b:26007**
Di Piazza, Luisa *see* **Bongiorno, Benedetto; et al., 98b:26007**
Ossanna, Elisabetta SBV functions over a rectifiable current and a compactness theorem. (English summary) **98a:49070**
Pfeffer, Washek F. On variations of functions of one real variable. (English summary) **98h:26011**
Skvortsov, Valentin *see* **Bongiorno, Benedetto; et al., 98b:26007**

26A46 Absolutely continuous functions

Peres, Yuval (*with* Solomyak, Boris) Self-similar measures and intersections of Cantor sets. (English summary) **98m:26009**
Solomyak, Boris *see* **Peres, Yuval, 98m:26009**
Song, Yi Hong On absolutely continuous functions. (Chinese. English and Chinese summaries)

26A48 Monotonic functions, generalizations

Gneiting, Tilmann On the Bernstein-Hausdorff-Widder conditions for completely monotone functions. (English summary)
Sun, Xingping Conditional positive definiteness and complete monotonicity. (English summary) **98k:26018**

Items with secondary classifications in 26A48

Anderson, Glen D. (*with* Qiu, Songliang) A monotoneity property of the gamma function. (English summary) **98h:33001**
Falikman, D. I. The permanent of a class of matrices associated with a finite group. **98i:15013**
van Haeringen, H. Inequalities for real powers of completely monotonic functions. (English summary) **98h:26019**
Ivanov, V. V. Geometric properties of monotone functions and the probabilities of random oscillations. (Russian. Russian summary) **98m:28008**
Lahiri, Indrajit A note on mean value property and monotonicity. **98e:26004**
Merkle, Milan Inequalities for residuals of power expansions for the exponential function and completely monotone functions. (English summary) **98c:26002**
Pečarić, Josip E. (*with* Perić, Ivan; Persson, Lars-Erik) Integral inequalities for monotone functions. (English summary) **98k:26036**
Perić, Ivan *see* **Pečarić, Josip E.; et al., 98k:26036**
Persson, Lars-Erik *see* **Pečarić, Josip E.; et al., 98k:26036**
Qiu, Songliang *see* **Anderson, Glen D., 98h:33001**

26A51 Convexity, generalizations

Govedarica, Vidan (*with* Jovanović, Milan V.) Functions with quasiconvex derivatives. (English summary) (*see* **98k:00021**)
Gusić, Ivica Convex functions on lattice ordered groups. (English summary) **98m:26010**
Jovanović, Milan V. A remark on strongly convex and quasiconvex functions. (Russian)
— *see also* **Govedarica, Vidan, (98k:00021)**
Kivinukk, Andi Some inequalities for convex functions. **98g:26011**
Malyshev, V. A. Estimates for the derivatives of n-convex functions. (Russian. English and Russian summaries) **98h:26013**
Matkowski, Janusz (*with* Rätz, Jürg) Convexity of power functions with respect to symmetric homogeneous means. (English summary) **98i:26016**
— (*with* Rätz, Jürg) Convex functions with respect to an arbitrary mean. (English summary) **98i:26017**
Merkle, Milan Logarithmic concavity of distribution functions. (English summary) (*see* **98k:00021**)
Pečarić, Josip E. (*with* Raşa, Ion) Inequalities for Wright-convex functions. (English summary) **98k:26019**
Raşa, Ion *see* **Pečarić, Josip E., 98k:26019**
Rätz, Jürg *see* **Matkowski, Janusz, 98i:26016** *and* **98i:26017**
Sun, Ming Bao Inequalities for two-parameter means of convex functions. (Chinese. English and Chinese summaries)
Zhou, Ying Gao A property of logarithmically convex functions and its application. (Chinese. English and Chinese summaries)

Items with secondary classifications in 26A51

Agarwal, Ravi P. *see* **Dragomir, Sever Silvestru**
Alzer, Horst Comments on some inequalities of Pearce and Pečarić. (English summary) **98a:26021**
An, P. T. *see* **Hoàng Xuân Phú, 98a:90079**
Barthe, Franck Inégalités de Brascamp-Lieb et convexité. (English and French summaries) [Brascamp-Lieb inequalities and convexity] **98a:26022**
Berenstein, Arkady (*with* Vaĭnshteĭn, A. D.) Concavity of weighted arithmetic means with applications. (English summary) **98b:26022**

Çakmak, Z. On some inequality and convexity-preserving approximating polynomial operators. (English and Turkish summaries)
Chademan, Arsalan (*with* Mirzapour, Farzollah) Boundedness properties of midconvex functions in locally compact groups. (English summary) **98k:22020**
Dragomir, Sever Silvestru (*with* Fitzpatrick, S. P.) s-Orlicz convex functions in linear spaces and Jensen's discrete inequality. (English summary) **98d:46045**
-- (*with* Agarwal, Ravi P.) Two new mappings associated with Hadamard's inequalities for convex functions. (English summary)
Fitzpatrick, S. P. *see* **Dragomir, Sever Silvestru, 98d:46045**
Ger, Joanna (*with* Ger, Roman) On some curves in vector lattices. (English summary) **98a:46012**
Ger, Roman *see* **Ger, Joanna, 98a:46012**
Gill, P. M. (*with* Pearce, Charles E. M.; Pečarić, Josip E.) Hadamard's inequality for r-convex functions. (English summary) **98k:26032**
Hartwig, Helga A note on roughly convex functions. (English summary) **98c:90097**
Helmberg, Gilbert Estimating the sum of alternating series with a convexity property. (English summary) **98i:40001**
Hoàng Xuân Phú (*with* An, P. T.) Stable generalization of convex functions. (English summary) **98a:90079**
Kostyrko, Pavel Notes on some problems of Solomon Marcus. (English summary) **98h:26006**
Krzyszkowski, Janusz Generalized convex sets. (English summary) **98j:52002**
Lupaş, Alexandru The Jensen-Hadamard inequality for convex functions of higher order.
Matkowski, Janusz (*with* Wróbel, Małgorzata) A generalized a-Wright convexity and related functional equation. (English summary) **98b:39027**
Mirzapour, Farzollah *see* **Chademan, Arsalan, 98k:22020**
Pearce, Charles E. M. *see* **Gill, P. M.; et al., 98k:26032**
Pečarić, Josip E. (*with* Persson, Lars-Erik) Some weighted multidimensional Berwald, Thunsdorff and Borell inequalities. (English summary) **98e:26016**
— *see also* **Gill, P. M.; et al., 98k:26032**
Persson, Lars-Erik *see* **Pečarić, Josip E., 98e:26016**
Sadowska, Elżbieta On set-valued functions of convex type. (English summary) **98b:26018**
Vainshtein, A. D. *see* **Berenstein, Arkady, 98h:26022**
Wróbel, Małgorzata *see* **Matkowski, Janusz, 98b:39027**

26A99 None of the above, but in this section

Baggett, Lawrence W. (*with* Medina, Herbert A.; Merrill, Kathy D.) Simultaneously symmetric functions. **98f:26006**
Bencze, Mihály *see* **Popovici, Florin**
Medina, Herbert A. *see* **Baggett, Lawrence W.; et al., 98f:26006**
Merrill, Kathy D. *see* **Baggett, Lawrence W.; et al., 98f:26006**
Popovici, Florin (*with* Bencze, Mihály) Three new symbols useful in the mathematical analysis.

26Bxx Functions of several variables

26B05 Continuity and differentiation questions

Arkhipov, G. I. (*with* Sadovnichiĭ, V. A.[1]; Chubarikov, V. N.) On the uniform convergence of functions in the sense of Heine. (Russian) **98c:26007**
Bantaş, Gheorghe (*with* Turinici, Mihai) Remarks about some hyperbolic mean value properties. **98f:26008**
— (*with* Turinici, Mihai) Hyperbolic mean value theorems of non-differential form. (Romanian summary) **98f:26007**
Chubarikov, V. N. *see* **Arkhipov, G. I.; et al., 98c:26007**
Cuesta-Albertos, J. A. (*with* Matrán, C.; Tuero-Díaz, A.) On the monotonicity of optimal transportation plans. (English summary) **98j:26006**
Gontineac, M. Partially derivation operators of second order on a class of multivalued functions. (Romanian summary)
Grande, Zbigniew On functions of two variables equicontinuous in one variable. (English summary) **98f:26009**
Holický, Petr (*with* Malý, Jan; Zajíček, Luděk; Weil, Clifford E.) A note on the gradient problem. **98f:26010**
Ilmuradov, D. D. On differential properties of real functions. (English summary) **98a:26011**
Kocan, Maciej (*with* Wang, Xu-Jia) On the generalized Stepanov theorem. (English summary) **98e:26012**
Liu, Shangping L^p-differentiability of $W^{l,p}(\mathbf{R}^n)$ $(1 < p < +\infty)$ functions. **98d:26004**
Malý, Jan *see* **Holický, Petr; et al., 98f:26010**
Matrán, C. *see* **Cuesta-Albertos, J. A.; et al., 98j:26006**
Rychlewicz, Andrzej On continuous functions. (English summary) **98h:26014**
Sadovnichiĭ, V. A.[1] *see* **Arkhipov, G. I.; et al., 98c:26007**
Tuero-Díaz, A. *see* **Cuesta-Albertos, J. A.; et al., 98j:26006**
Turinici, Mihai *see* **Bantaş, Gheorghe, 98f:26007** *and* **98f:26008**
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Weil, Clifford E. *see* **Holický, Petr; et al., 98f:26010**
Wilczynski, Władysław (*with* Wojdowski, Wojciech) Sequence conditions which imply approximate and I-approximate continuities of functions of two variables. (English summary) **98j:26007**
Wojdowski, Wojciech *see* **Wilczynski, Władysław, 98j:26007**
Zajíček, Luděk *see* **Holický, Petr; et al., 98f:26010**

Items with secondary classifications in 26B05

Agud, L. (*with* Catalán, O. R. G.; Garay, Jose) Two mathematical applications of Buckingham's Pi theorem. (Spanish. English summary) **98c:00010**
Buczolich, Zoltán (*with* Pfeffer, Washek F.) Variations of additive functions. (English summary) **98h:26017**
Carrese, Rosalba (*with* Łazarow, Ewa) Baire classes of some generalized partial derivatives. (English summary) **98h:26007**
Catalán, O. R. G. *see* **Agud, L.; et al., 98c:00010**
Diab, F. M. On the differential properties of complex continuous functions. (English and Arabic summaries)
Ferrarotti, Massimo (*with* Wilson, Leslie Charles) Generalized Hestenes' lemma and extension of functions. **98h:58018**
Garay, Jose *see* **Agud, L.; et al., 98c:00010**
Giaquinta, Mariano (*with* Modica, G.; Souček, Jiří) Composition of weak diffeomorphisms. **98m:49057**
Huang, Liren (*with* Ng, Kung Fu) On some relations between Chaney's generalized second-order directional derivative and that of Ben-Tal and Zowe. (English summary) **98e:49039**
Kurdyka, Krzysztof (*with* Pawłucki, Wiesław) Subanalytic version of Whitney's extension theorem. (English summary) **98i:32008**
Łazarow, Ewa *see* **Carrese, Rosalba, 98h:26007**
Modica, G. *see* **Giaquinta, Mariano; et al., 98m:49057**
Ng, Kung Fu *see* **Huang, Liren, 98e:49039**
Novo Sanjurjo, V. Existence and minimality conditions for the Dini subdifferential. (Spanish. English and Spanish summaries) **98e:49042**
Pawłucki, Wiesław *see* **Kurdyka, Krzysztof, 98i:32008**
Pfeffer, Washek F. *see* **Buczolich, Zoltán, 98h:26017**
Piotrowski, Zbigniew (*with* Reilly, Ivan L.; Scott, Brian M.) The cardinality of the class of separately continuous functions. (English summary) **98g:54027**
— The genesis of separate versus joint continuity. (English summary) **98j:01026**
Recht, Peter On the reconstruction problem for nondifferentiable functions. (English summary) **98e:49044**
Reilly, Ivan L. *see* **Piotrowski, Zbigniew; et al., 98g:54027**
Scott, Brian M. *see* **Piotrowski, Zbigniew; et al., 98g:54027**
Souček, Jiří *see* **Giaquinta, Mariano; et al., 98m:49057**
Spring, D. On the second derivative test for constrained local extrema. **98e:90171**
Wilson, Leslie Charles *see* **Ferrarotti, Massimo, 98h:58018**

26B10 Implicit function theorems, Jacobians, transformations with several variables

Yanushauskas, A. I. On mappings realized by the gradient of the Green function in a polyhedral domain. (Russian) **98f:26011**

Items with secondary classifications in 26B10

Campbell, L. Andrew Global univalence of partially proper local homeomorphisms. (English summary) **98h:57045a**
— Errata to: "Global univalence of partially proper local homeomorphisms" and to: "Partial properness and the Jacobian conjecture" [Appl. Math. Lett. **9** (1996), no. 2, 5–10; MR 98h:14018]. **98h:57045b**
Clarke, Francis H. Solving equations by the decrease principle. **98f:49017**
Jódar, Lucas (*with* Ponsoda, E.; Rodríguez Sánchez, Gerardo) Approximations and error bounds for computing the inverse mapping. (English summary) **98c:65085**
Parthasarathy, Thiruvenkatachari (*with* Sabatini, Marco) Some new results on the global asymptotic stability Jacobian conjecture. (English summary) **98c:34080**
Ponsoda, E. *see* **Jódar, Lucas; et al., 98c:65085**
Rodríguez Sánchez, Gerardo *see* **Jódar, Lucas; et al., 98c:65085**
Sabatini, Marco *see* **Parthasarathy, Thiruvenkatachari, 98c:34080**

26B12 Calculus of vector functions

Buczolich, Zoltán Another note on the gradient problem of C. E. Weil. (English summary) **98g:26012**
Lang, Serge Globale Integration lokal integrierbarer Vektorfelder. (German summary) [Global integration of locally integrable vector fields] **98b:26012**

26B15 Integration: length, area, volume [see also 28A75, 51M25]

Đặng Đình Áng (*with* Schmitt, Klaus; Le, Vy Khoi) A multidimensional analogue of the Denjoy-Perron-Henstock-Kurzweil integral. **98e:26013**
Le, Vy Khoi *see* **Đặng Đình Áng; et al., 98e:26013**
Lee, Peng Yee (*with* Leng, Ng Wee) The Radon-Nikodým theorem for the Henstock integral in Euclidean space. (English summary) **98h:26015**
Leng, Ng Wee *see* **Lee, Peng Yee, 98h:26015**
Rahman, H. U. Analytical formulae for n-dimensional Gaussian integrals. (English summary)
Schmitt, Klaus *see* **Đặng Đình Áng; et al., 98e:26013**
Sellier, A. Hadamard's finite part concept in dimension $n \geq 2$; definition and change of variables, associated Fubini's theorem, derivation. (English summary) **98e:26014**
Shehadeh, Ali H. Introducing an oblique spherical coordinates on the sphere. (English summary)

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Lasserre, Jean B. Integration on a convex polytope. (English summary) **98j:65016**
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26B20 Integral formulas (Stokes, Gauss, Green, etc.)

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Kurzweil, Jaroslav Nonabsolutely convergent integrals via integral sums in $\mathbf{R}^n$. (English summary) **98m:26007**
Volpert, A. I. Analysis in classes of discontinuous functions and partial differential equations. (English summary) **98g:46111**

26B25 Convexity, generalizations

Cambini, Riccardo Generalized affine scalar functions. (Italian. English and Italian summaries) **98a:26012**
Chong, Kong-Ming A characterization of Schur convexity. (English summary) **98c:26008**
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— *see also* **Ku, Hsu-Tung; et al.**, **98k:26021**

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Bector, C. R. (*with* Singh, Manohar) Duality for minmax B-vex programming involving n-set functions. (English summary) **98k:90077**
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Breckner, Wolfgang W. (*with* Kassay, Gábor) A systematization of convexity concepts for sets and functions. (English summary) **98h:52002**
Colesanti, Andrea A Steiner type formula for convex functions. (English summary) **98h:52018**
Corrias, Lucilla Fast Legendre-Fenchel transform and applications to Hamilton-Jacobi equations and conservation laws. (English summary) **98a:49044**
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De Vylder, F. (*with* Marceau, E.) The numerical solution of the Schmitter problems: theory. (English summary) **98f:62295**
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Zalgaller, V. A. Distances to the two and three most distant points. (Russian. Russian summary) **98d:52011**

26B30 Absolutely continuous functions, functions of bounded variation

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Buczolich, Zoltán (*with* Pfeffer, Washek F.) Variations of additive functions. (English summary) **98h:26017**
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Talalyan, F. A. On the essential variation in the sense of Vitali of functions of several variables. (Russian. English and Russian summaries) **98m:26011**

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26B35 Special properties of functions of several variables, Hölder conditions, etc.

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Danielyan, É. A. (*with* Tatalyan, K. R.) Monotone systems of functions of several variables. (Russian) **98a:26014**
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— (*with* Turinici, Mihai) Hyperbolic mean value theorems of non-differential form. (Romanian summary) **98f:26007**
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Kreglyak, N. Ya. Piecewise polynomial approximation with free nodes, and F_α-characteristics for $\alpha \in [1 - 1/n, 1)$. (Russian. Russian summary) **98k:41017**
Kucia, Anna (*with* Nowak, Andrzej S.) Some applications of [the] Marczewski function. (English summary) **98e:54016**
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Zobin, Nahum Whitney's problem on extendability of functions and an intrinsic metric. (English summary) **98k:46058**

26B40 Representation and superposition of functions

Ciesielski, Krzysztof[2] (*with* Wojciechowski, Jerzy) Sums of connectivity functions on $\mathbb{R}^n$. (English summary) **98k:26023**
Isac, George (*with* Vuza, D. T.) Differential representation of measures and functions. (English summary) **98j:26009**
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Wu, Shu Hong A problem on independence. (Chinese. English and Chinese summaries)

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Garkavi, A. L. On the approximation of functions in two variables by sums of the form $\varphi(x) + \psi(y)$ in the spaces L_p $(1 \le p \le \infty)$. (Russian. Russian summary) **98g:41035**
Gorban', A. N. Approximation of continuous functions of several variables by an arbitrary nonlinear continuous function of one variable, linear functions, and their superpositions. (English summary)

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Volchkov, V. V. Extremal variants of the Pompeiu problem. (Russian. Russian summary) **98g:26014**

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26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, etc. [see also 12Dxx, 12Exx]

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26C10 Polynomials: location of zeros [see also 12D10, 30C15, 65H05]

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— (*with* Csordas, George) Problems and theorems in the theory of multiplier sequences. (English summary) **98k:26024**
— (*with* Csordas, George) On a converse of Laguerre's theorem. (English summary) **98d:26006**
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Fuhrmann, Paul A. ★ A polynomial approach to linear algebra. **98a:15001**
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26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15.}

26D05 Inequalities for trigonometric functions and polynomials

Habsieger, Laurent Sur un problème de Newman. (English and French summaries) [On a problem of Newman] **98c:26009**
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Babenko, A. G. Exact Jackson-Stechkin inequality in the space L^2 of functions on a multidimensional sphere. (Russian. Russian summary) **98a:41022**
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Guessab, A. (*with* Rahman, Qazi I.) Quadrature formulae and polynomial inequalities. (English summary) **98g:41033**
Ismail, Mourad E. H. Remarks on a paper by C. Giordano, A. Laforgia and J. Pečarić: "Supplements to known inequalities for some special functions" [J. Math. Anal. Appl. **200** (1996), no. 1, 34–41; MR 97b:33004]. (English summary) **98f:33006**
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— (*with* Pečarić, Josip E.; Brnetić, Ilko) Improved integral inequalities in n independent variables. (English summary) **98f:26012**
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— *see also* **Drábek, Pavel; et al., 98k:26026**
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— (*with* Raşa, Ion) An integral inequality.
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— (*with* Kofanov, V. A.; Pichugov, S. A.) On additive inequalities for intermediate derivatives of functions defined on a finite interval. (Russian. English and Ukrainian summaries) **98i:41011**
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Bobkov, S. G. (*with* Houdré, Christian) Converse Poincaré-type inequalities for convex functions. (English summary) **98g:60034**
Brown, B. Malcolm (*with* Dias, N. G. J.) The HELP type integral inequalities for $2n$th order differential operators. (English summary) **98e:34046**
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26Exx Miscellaneous topics [see also 58Cxx]

26E05 Real-analytic functions [see also 32B05, 32C05]

Items with secondary classifications in 26E05

Schmets, Jean (*with* Valdivia, Manuel) The Zahorski theorem is valid in Gevrey classes. (English summary) 98a:26026
Valdivia, Manuel *see* **Schmets, Jean**, 98a:26026

26E10 C^∞-functions, quasi-analytic functions [see also 58C25]

Gokhman, Dmitry Functions in a Hardy field not ultimately C^∞. (English summary) 98e:26024
Pokrovskiĭ, A. V. On the representation of continuous functions as the sum of quasi-analytic functions. (Russian. Russian summary) 98h:26032
Schmets, Jean (*with* Valdivia, Manuel) The Zahorski theorem is valid in Gevrey classes. (English summary) 98a:26026
Thilliez, Vincent Quelques propriétés de quasi-analyticité. [Some properties of quasianalyticity] 98a:26027
Valdivia, Manuel *see* **Schmets, Jean**, 98a:26026

Items with secondary classifications in 26E10

Chaumat, Jacques (*with* Chollet, Anne-Marie) Théorèmes de préparation dans des classes ultradifférentiables. [Preparation theorems in ultradifferentiable classes] 98m:32006
— (*with* Chollet, Anne-Marie) Caractérisation des anneaux noethériens de séries formelles à croissance controlée. Application à la synthèse spectrale. (English summary) [Characterization of Noetherian rings of formal power series with controlled growth. Application to spectral synthesis] 98k:32010
Chollet, Anne-Marie *see* **Chaumat, Jacques**, 98k:32010 *and* 98m:32006
Korenblum, B. (*with* Mascuilli, A.; Panariello, J.) A generalization of Carleman's uniqueness theorem and a discrete Phragmén-Lindelöf theorem. (English summary) 98h:30056
Mascuilli, A. *see* **Korenblum, B.; et al.**, 98h:30056
Panariello, J. *see* **Korenblum, B.; et al.**, 98h:30056

26E15 Calculus of functions on infinite-dimensional spaces [see also 46G05, 58Cxx]

Items with secondary classifications in 26E15

Clarke, Francis H. *see* **Radulescu, M. L.**, 98c:46084
Georgiev, Pando Gr. (*with* Zlateva, Nadia P.) Second-order subdifferentials of $C^{1,1}$ functions and optimality conditions. (English summary) 98i:49021
Kriegl, Andreas Remarks on germs in infinite dimensions. (English summary) 98i:46040
Páles, Zsolt (*with* Zeidan, Vera) Separation via quadratic functions. (English summary) 98a:39025
Radulescu, M. L. (*with* Clarke, Francis H.) The multidirectional mean value theorem in Banach spaces. (English summary) 98c:46084
Zeidan, Vera *see* **Páles, Zsolt**, 98a:39025
Zlateva, Nadia P. *see* **Georgiev, Pando Gr.**, 98i:49021

26E20 Calculus of functions taking values in infinite-dimensional spaces [see also 46E40, 46G10, 58Cxx]

Items with secondary classifications in 26E20

Khan, Liaqat Ali[1] Mean value theorem in topological vector spaces. (English summary) 98k:58023
Turinici, Mihai Differential mean value properties for half-continuous functions. 98b:46043

26E25 Set-valued functions [see also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx.}

Breckner, Wolfgang W. On the condensation of the singularities of families of nonlinear functions. (English summary) 98k:26038
Knuckles, Craig (*with* Wolenski, Peter R.) C^1 selections of multifunctions in one dimension. (English summary) 98i:26028
Sadowska, Elżbieta On set-valued functions of convex type. (English summary) 98b:26018
Wolenski, Peter R. *see* **Knuckles, Craig**, 98i:26028

Items with secondary classifications in 26E25

Cernea, Aurelian (*with* Mirică, Ştefan) Quasitangent differentiability and derived cones to reachable sets of control systems. (English summary) 98k:49023
Dong, Jia Li (*with* Shen, Yang) Set-valued derivatives of n-dimensional generalized functions. (Chinese. English and Chinese summaries) 98k:49027
Ginchev, I. (*with* Hoffmann, Armin) On the best approximation of set-valued functions. (English summary) 98h:41040
Hoffmann, Armin *see* **Ginchev, I.**, 98h:41040
Komuro, Naoto Semicontinuity of convex set valued mappings and the support functions. (English summary) 98b:49017
Kucia, Anna (*with* Nowak, Andrzej S.) Approximation of Carathéodory type multifunctions. (English summary) 98d:54038
Matejdes, Milan Cliquishness of multifunctions. (English summary) 98f:54023
Mirică, Ştefan *see* **Cernea, Aurelian**, 98k:49023
Mrozek, Marian Rigorous numerics of chaotic dynamical systems. 98g:58118
— The Conley index and rigorous numerics. 98i:58161
Nguyễn Đông Yên *see* **Phạm Hữu Sách**, 98d:47115
Nikodem, Kazimierz (*with* Papalini, Francesca; Vercillo, Susanna) Some representations of midconvex set-valued functions. (English summary) 98a:26013
Nowak, Andrzej S. *see* **Kucia, Anna**, 98d:54038
Papalini, Francesca *see* **Nikodem, Kazimierz; et al.**, 98a:26013
Phạm Hữu Sách (*with* Nguyễn Đông Yên) Convexity criteria for set-valued maps. (English summary) 98d:47115
Semenov, Pavel V. Paraconvexity of the graphs of Lipschitzian functions. (English summary) 98c:54013
Shen, Yang *see* **Dong, Jia Li**, 98k:49027
Vercillo, Susanna *see* **Nikodem, Kazimierz; et al.**, 98a:26013

26E30 Non-Archimedean analysis [see also 12J25]

Diarra, Bertin (*with* Escassut, Alain; Sarmant-Durix, Marie-Claude) p-adic characters on the restricted power series. (English summary) 98i:26029
Escassut, Alain *see* **Diarra, Bertin; et al.**, 98i:26029
Sarmant-Durix, Marie-Claude *see* **Diarra, Bertin; et al.**, 98i:26029

Items with secondary classifications in 26E30

Hatada, Kazuyuki On p-adic convergent power series of several variables. 98e:11137
Woodcock, C. F. Divisibility and squares in a p-adic convolution algebra. 98g:46113

26E35 Nonstandard analysis [see also 03H05, 28E05, 54J05]

Borde, Pascal Théorie unifiée de l'intégrale. [Unified integration theory] **98h:26033**

Items with secondary classifications in 26E35

Blais, François Asymptotique dans un corps de Hardy. (English and French summaries) [Asymptotics in a Hardy field] **98k:26003**
Fjelstad, Paul T. Limitless calculus via ethereal numbers. **98a:03106**
Grenier, Jean-Pierre Parties maigres de la droite hyperfinie. [Meager sets of the hyperfinite line] (*see* **98a:00009**)
Hsu, Leetsch Charles *see* **Sun, Guangrun**, **98a:60087**
Huang, Cheng Gui An external analytic model and indefiniteness or uncertainty in δ-functions and singular integrals. (Chinese. English and Chinese summaries)
Iovino, José Definability in functional analysis. (English summary) **98i:03046**
Kalina, Martin On the ergodic theorem within nonstandard models. (English summary) **98k:28024**
Loeb, Peter Albert (*with* Osswald, Horst) Nonstandard integration theory in topological vector lattices. (English summary) **98m:28046**
Osswald, Horst *see* **Loeb, Peter Albert**, **98m:28046**
Sun, Guangrun (*with* Hsu, Leetsch Charles) The use of nonstandard Möbius inversion to solve stochastic Volterra integral equations. (English and Chinese summaries) **98a:60087**
Wang, Fang Ting An application of model theory to the theory of real numbers. (Chinese. English and Chinese summaries) **98j:03097**

26E50 Fuzzy real analysis [see also 04A72, 28E10]

Furukawa, Nagata Convexity and local Lipschitz continuity of fuzzy-valued mappings. (English summary) **98i:26030**
Ghil, Byung Moon On the convergence of fuzzy-number-valued functions. (English summary) **98c:26018**
Jang, Lee-Chae (*with* Kwon, Joong-Sung) On the convergence of T-sum series of fuzzy numbers. (English summary)
Kalina, Martin Derivatives of fuzzy functions and fuzzy derivatives. (English summary) (*see* **98i:00019**)
Kwon, Joong-Sung *see* **Jang, Lee-Chae**
Liang, Ping *see* **Wang, Pei-Zhuang; et al.**, **98a:26028**
Song, Fengming *see* **Wang, Pei-Zhuang; et al.**, **98a:26028**
Tan, Shaohua *see* **Wang, Pei-Zhuang; et al.**, **98a:26028**
Wang, Pei-Zhuang (*with* Tan, Shaohua; Song, Fengming; Liang, Ping) Constructive theory for fuzzy systems. (English summary) **98a:26028**
Zeng, Wen Yi Implication relations between definitions of convergence for sequences of fuzzy numbers. (Chinese. English and Chinese summaries)

Items with secondary classifications in 26E50

Guo, Caimei *see* **Wu, Cong Xin; et al.**
Pap, Endre Decomposable measures and nonlinear equations. (English summary) **98m:28048**
Tao, Jiang *see* **Wang, Gui Jun**
Wang, Gui Jun (*with* Tao, Jiang) A weakly equivalent condition of convex fuzzy sets. (English summary)
Wu, Cong Xin (*with* Zhang, Deli; Guo, Caimei) Generalized fuzzy integrals with respect to fuzzy number fuzzy measures. (English summary)
Zhang, Deli *see* **Wu, Cong Xin; et al.**

28–XX Measure and integration {For analysis on manifolds, see 58–XX.}

28–01 Instructional exposition (textbooks, tutorial papers, etc.)

Burk, Frank ★ Lebesgue measure and integration. (English summary) **98g:28001**
Cohn, Donald L. ★ Measure theory. (English summary) **98b:28001**
Filter, Wolfgang (*with* Weber, Karl) ★ Integration theory. (English summary) **98i:28001**
Magyar, Zoltán ★ The Lebesgue integral. (English summary) **98j:28001**
(Marle, Charles-Michel) *see* **Simonnet, Michel, 98e:28001**
Nielsen, Ole A. ★ An introduction to integration and measure theory. **98j:28002**
Simonnet, Michel ★ Measures and probabilities. (English summary) **98e:28001**
Taylor, John Christopher ★ An introduction to measure and probability. (English summary) **98e:28002**
Weber, Karl *see* **Filter, Wolfgang. 98i:28001**

Items with secondary classifications in 28–01

Benoist, Joël (*with* Salinier, Alain) ★ Exercices de calcul intégral. (French. French summary) [Exercises of integral calculus] **98h:00003**
Gerow, Ken (*with* Holbrook, John) Statistical sampling and fractal distributions. **98b:62014**
Holbrook, John *see* **Gerow, Ken. 98b:62014**
Lieb, Elliott H. (*with* Loss, Michael) ★ Analysis. (English summary) **98b:00004**
Loss, Michael *see* **Lieb, Elliott H., 98b:00004**
Salinier, Alain *see* **Benoist, Joël, 98h:00003**

28–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 28–03

Horváth, John Michael Some selected results of Professor Baltasar Rodríguez-Salinas. (English summary) **98d:01038**
Jimenez Guerra, Pedro Evolution of the integral in the XIXth century. (Spanish) **98g:01042**
Pier, Jean-Paul ★ Histoire de l'intégration. (French. French summary) [History of integration] **98k:01003**
(Rodríguez Salinas, Baltasar) *see* **Horváth, John Michael, 98d:01038**

28–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 28–06

(Holwerda, Henk) *see* **Probability and lattices, 98b:60001**
(Vervaat, Wim) *see* **Probability and lattices, 98b:60001**

Items listed otherwise than by author

Probability and lattices ★ Probability and lattices. **98b:60001**

28Axx Classical measure theory

28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [see also 03E15, 04A15, 26A21, 54H05]

Balcerzak, Marek Functions with fibres large on each nonvoid open set. (English and Polish summaries) **98b:28002**
Blackwell, David (*with* Diaconis, Persi) A non-measurable tail set. **98m:28001**
Chen, Jun Ya An important property of the family of μ^* measurable sets. (Chinese. English and Chinese summaries)
Crnjac, Miljenko (*with* Guljaš, Boris; Miller, Harry I.) A positive answer to a question about the Cantor set. (English summary) **98c:28001**
Diaconis, Persi *see* **Blackwell, David, 98m:28001**
Ganguly, D. K. (*with* Majumdar, Madhabendu) Some results on sets of positive measure. (English summary) **98m:28002**
Guljaš, Boris *see* **Crnjac, Miljenko; et al., 98c:28001**
Hejduk, Jacek Non-Baire unions in category bases. (English summary) **98a:28001**
— Convergence with respect to F_σ-supported ideals. **98b:28003**
Humke, Paul D. (*with* Laczkovich, Miklós) A visit to the Erdős problem. (English summary) **98e:28003**
Jasinski, Jakub Large sets containing copies of small sets. (English summary) **98f:28001**
Kenyon, Richard Projecting the one-dimensional Sierpinski gasket. (English summary) **98i:28002**
Kharazishvili, A. B. A note on the Sierpiński partition. (English summary) **98c:28002**
— On nonmeasurable subgroups of the real line. (English summary) **98d:28001**
— On selectors nonmeasurable with respect to quasi-invariant measures. (English summary) **98f:28002**
— On some subsets of spaces equipped with transformation groups. (English summary) **98m:28003**
Kolountzakis, Mihail N. Infinite patterns that can be avoided by measure. (English summary) **98i:28003**
Laczkovich, Miklós *see* **Humke, Paul D., 98e:28003**
Lahiri, Kabita *see* **Ray, Kamakhya Charan, 98b:28004**
Majumdar, Madhabendu *see* **Ganguly, D. K., 98m:28002**
Maličký, Peter An extension of measure with respect to a measure preserving mapping. (English summary) **98e:28004**
Miller, Harry I. *see* **Crnjac, Miljenko; et al., 98c:28001**
Ray, Kamakhya Charan (*with* Lahiri, Kabita) On some density properties of sets. (English summary) **98b:28004**
Recław, Ireneusz On cardinal invariants for CCC σ-ideals. (English summary) **98f:28003**
Xenikakis, Polychronis J. Measure and category versions of Erdős-Rado theorem. (English summary) **98i:28004**

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Becker, Howard (*with* Kechris, Alexander S.) ★ The descriptive set theory of Polish group actions. (English summary) **98d:54068**
Beleznay, Ferenc (*with* Foreman, Matthew) The complexity of the collection of measure-distal transformations. (English summary) **98f:28019**
Cichoń, Jacek (*with* Kraszewski, Jan) On some new ideals on the Cantor and Baire spaces. (English summary) **98j:54052**
Foreman, Matthew *see* **Beleznay, Ferenc, 98f:28019**
Kaufman, Robert Note on differential equations in Banach spaces. (English summary) **98h:34111**
Kechris, Alexander S. *see* **Becker, Howard, 98d:54068**
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Pawlikowski, Janusz Every Sierpiński set is strongly meager. **98i:03066**
Pytkeev, E. G. Z_σ-mappings of K-analytic spaces. (Russian) **98c:54031**
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Szabó, László[2] A simple proof for the Jordan measurability of convex sets. **98d:52010**
Todorčević, Stevo Aronszajn orderings. **98g:03116**
Uzcátegui A., Carlos E. The σ-ideal of closed smooth sets does not have the covering property. (English summary) **98d:54076**
Wiśniewski, Andrzej The continuous approximation of measurable mappings. **98c:28003**
Yang, Xin Jian Separability of σ-fields and of L_p spaces. (Chinese. English and Chinese summaries)
Zelený, Miroslav Sets of extended uniqueness and σ-porosity. (English summary) **98h:42007**
Zhou, Li Biao Regularity properties of Suslin sets as S-sets. (Chinese. English and Chinese summaries)

28A10 Real- or complex-valued set functions

Barone, Enzo On the concept of associative measure. (Italian. English summary) **98d:28002**
Hille, Jörgen (*with* Plachky, Detlef) Monogenicity of probability measures based on measurable sets invariant under finite groups of transformations. (English summary) **98c:28005**
Kashiwabara, Kenji Nonadditive set functions on a finite set and linear inequalities. (English summary) **98m:28004**
Lahiri, Kabita *see* **Ray, Kamakhya Charan, 98b:28002**
de Lucia, Paolo (*with* Pap, Endre) Nikodým convergence theorem for uniform space valued functions defined on D-posets. (English summary) **98b:28005**
Magyar, Zoltán On the Radon-Nikodým theorem.
Pap, Endre Pseudo-analysis and its applications. (English summary) **98k:28001**
— *see also* **de Lucia, Paolo, 98b:28005**
Plachky, Detlef *see* **Hille, Jörgen, 98e:28005**
Plewik, Sz. No b-concentrated measures whenever $b^{\omega_1}(b^\omega - 1) = 1$.
Ratomir, Pažanin Equivalence of Lebesgue-Stieltjes measures generated with distribution function. (English and Macedonian summaries) **98m:28005**
Ray, Kamakhya Charan (*with* Lahiri, Kabita) On extension of positive measures. **98k:28002**

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Knight, John E. On finitely subadditive outer measures. (English summary) **98d:28003**
Lévy Véhel, Jacques (*with* Vojak, Robert) Multifractal analysis of Choquet capacities. (English summary) **98j:28003**
Vojak, Robert *see* **Lévy Véhel, Jacques, 98j:28003**

28A12 Contents, measures, outer measures, capacities

Camacho, James, Jr. On characterization and properties of replete Wallman spaces. (English summary) **98m:28006**
Gerritse, Bart Varadhan's theorem for capacities. (English summary) **98i:28005**
Ghirardato, Paolo On independence for non-additive measures, with a Fubini theorem. (English summary) **98h:28001**
Hejduk, Jacek On the density topology with respect to an extension of Lebesgue measure. (English summary) **98m:28007**
Holwerda, Henk (*with* Vervaat, Wim) Lattices of capacities, and related topologies. (English summary) **98i:28006**
Knight, John E. On finitely subadditive outer measures. (English summary) **98d:28003**
Krzemińska, Iwona A Cantor set in the intersection of sets of large measure. (English summary)
Lenzi, Domenico On the genesis of additive measures in a Boolean ring. (Italian. English and Italian summaries) **98b:28006**
Lévy Véhel, Jacques (*with* Vojak, Robert) Multifractal analysis of Choquet capacities. (English summary) **98j:28003**
Nguyen, Hung Trung (*with* Nguyen, Nhu T.; Wang, Tonghui) On capacity functionals in interval probabilities. (English summary) **98i:28007**
Nguyen, Nhu T. *see* **Nguyen, Hung Trung; et al., 98i:28007**
Plachky, Detlef Characterization of extremal extensions of measures restricted by majorization with applications to decomposition of measures. (English summary) **98h:28002**
Scarsini, Marco Copulae of capacities on product spaces. (English summary) **98g:28002**
Vervaat, Wim *see* **Holwerda, Henk, 98i:28006**

Vojak, Robert *see* **Lévy Véhel, Jacques, 98j:28003**
Wang, Tonghui *see* **Nguyen, Hung Trung; et al., 98i:28007**
Wibisono, Setiawati Outer measure analysis of topological lattice properties. (English summary) **98f:28004**

Items with secondary classifications in 28A12

Allan, James A. Topological properties of generalized Wallman spaces and lattice relations. (English summary) **98f:28015**
— Lattice repleteness and completeness in terms of abstract Wallman spaces. (English summary) **98i:28017**
Camacho, James, Jr. On topological properties of certain Wallman spaces. (English summary) **98c:28013**
Chentsov, A. G. Relaxations of stochastic constraints in the class of finitely additive probabilities. (Russian)
— On the extension of stochastic constraints in the class of finitely-additive probabilities. (Russian) **98h:62006**
Dellacherie, Claude Une version non linéaire du théorème de représentation de Riesz. (English and French summaries) [A nonlinear version of the Riesz representation theorem] **98d:46021**
Diday, Edwin (*with* Emilion, Richard) Treillis de Galois maximaux et capacités de Choquet. (English and French summaries) [Maximal Galois lattices and Choquet capacities] **98c:06004**
Emilion, Richard *see* **Diday, Edwin, 98c:06004**
Fan, Ai Hua Ergodicity, unidimensionality and multifractality of self-similar measures. **98f:28008**
Grenier, Jean-Pierre Complétion d'une classe de demi-treillis topologiques, applications. (French summary) [Extension of a class of topological semilattices, applications] **98h:06012**
Kruglyak, N. Ya. Quantitative theorems on a Whitney-type covering. (Russian) **98f:28006**
Mittag, Barry B. Normal lattices and coseparation of lattices. (English summary) **98e:28016**
Staples, Susan G. (*with* Ward, Lesley A.) Quasisymmetrically thick sets. (English summary) **98m:30031**
Vlad, Carmen Outer measures: measurability, σ-smoothness and regularity. (English summary) **98c:28017**
— Regularity and σ-smoothness of μ''-measurable sets. (English summary) **98a:28011**
— On lattice-topological properties of general Wallman spaces. (English summary) **98j:28009**
Ward, Lesley A. *see* **Staples, Susan G., 98m:30031**
Wibisono, Setiawati Smoothness, regularity, and domination of lattice measures. (English summary) **98c:28018**
Yoo, Keuk-Ryoul Steady-state probabilities under non-additivity. (English summary)

28A15 Abstract differentiation theory, differentiation of set functions [see also 26A24]

Ivanov, V. V. Geometric properties of monotone functions and the probabilities of random oscillations. (Russian. Russian summary) **98m:28008**
Oniani, G. T. (*with* Zerekidze, T.) On differential bases formed of intervals. (English summary) **98b:28007**
Stokolos, A. M. On differentiation of integrals with respect to bases of convex sets. (English summary) **98b:28008**
— On the differentiation of integrals by bases that do not possess the density property. (Russian. Russian summary) **98i:28008**
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Magyar, Zoltán On the Radon-Nikodym theorem.
Maharam, Dorothy Spectral representation of generalized transition kernels. (English summary) **98m:28013**
Mejlbro, Leif (*with* Topsøe, Flemming) Vitali systems in $\mathbf{R}^n$ with irregular sets. (English summary) **98h:05055**
Topsøe, Flemming *see* **Mejlbro, Leif, 98h:05055**

28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

Foran, James A note on convergence in measure. **98g:28003**
Gompa, Raghu R. (*with* Gompa, Vijaya L.) On the measurability of convergence set. **98m:28009**
Gompa, Vijaya L. *see* **Gompa, Raghu R., 98m:28009**
Stone, A. H. Lusin's theorem. (English summary) **98k:28003**
Wiśniewski, Andrzej The continuous approximation of measurable mappings. **98c:28003**

Items with secondary classifications in 28A20

Amrani, Allal (*with* Castaing, Charles) Weak compactness in Pettis integration. (English summary) **98f:46021**
Bercovici, Hari (*with* Prunaru, Bebe) An improved factorization theorem with applications to subnormal operators. (English summary) **98m:47069**
Castaing, Charles *see* **Amrani, Allal, 98f:46021**
Drewnowski, Lech (*with* Labuda, Iwo) Lacunary convergence of series in L_0. (English summary) **98g:40001**
Fleischer, Isidore A Vitali-like convergence theorem for the Henstock integral. (English summary) **98b:26008**
Helmer, D. A general diagonal process and compactness in spaces of measurable functions. (English summary) **98b:46034**
Hungerbühler, Norbert A refinement of Ball's theorem on Young measures. (English summary)
Kharazishvili, A. B. On selectors nonmeasurable with respect to quasi-invariant measures. (English summary) **98f:28002**
— On some subsets of spaces equipped with transformation groups. (English summary) **98m:28003**
Labuda, Iwo *see* **Drewnowski, Lech, 98g:40001**
Murofushi, Toshiaki (*with* Sugeno, Michio; Suzaki, Manabu) Autocontinuity, convergence in measure, and convergence in distribution. (English summary)
Prunaru, Bebe *see* **Bercovici, Hari, 98m:47069**
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Suzaki, Manabu *see* **Murofushi, Toshiaki; et al.**
Tarafdar, Enayet *see* **Yuan, Xian-Zhi, 98k:90020**
Vladimirskiĭ, Yu. N. Errata: "Equimeasurable sets and cylindrical measures" [Teor. Veroyatnost. Primenen. **40** (1995), no. 4, 731–740; MR 97g:60006]. (Russian)
Wilczynski, Władysław (*with* Wojdowski, Wojciech) Sequence conditions which imply approximate and I-approximate continuities of functions of two variables. (English summary) **98j:26007**
Wojdowski, Wojciech *see* **Wilczynski, Władysław, 98j:26007**
Wu, Jun² Multi-type random recursive constructions. (English summary) **98f:28007**
Yuan, Xian-Zhi (*with* Tarafdar, Enayet) A remark on the paper: "Existence of equilibria of generalized games without compactness and paracompactness" [Nonlinear Anal. **26** (1996), no. 5, 893–902; MR 96k:90019]. **98k:90020**

28A25 Integration with respect to measures and other set functions

Appling, William D. L. A characterization theorem for the existence of a Hellinger-type integral. (English summary) **98e:28006**
Lee, Peng Yee Measurability and the Henstock integral. **98f:28005**
Riccobono, Giuseppa A PU-integral on an abstract metric space. (English summary) **98g:28004**

Items with secondary classifications in 28A25

Gerritse, Bart Varadhan's theorem for capacities. (English summary) **98i:28005**

28A33 Spaces of measures, convergence of measures [see also 46E27, 60Bxx]

Filter, Wolfgang Equivalence relations on Stonian spaces. (English summary) **98m:28010**
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28Bxx Set functions, measures and integrals with values in abstract spaces

28B05 Vector-valued set functions, measures and integrals [see also 46G10]

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Candeloro, D. Riemann-Stieltjes integration in Riesz spaces. (English and Italian summaries) **98g:28012**
Muñoz Bouzo, M. J. A Prokhorov's theorem for Banach lattice valued measures. (English and Spanish summaries) **98k:28017**
Sambucini, A. R. *see* **Boccuto, A.**, **98c:28010**
Shcherbin, V. M. On an integration of mappings of semi-ordered rings. (Russian)
Vrábel, Peter Integration on MV-algebras. (English summary) **98k:28018**

Items with secondary classifications in 28B15

Duchoň, Miloslav (*with* Riečan, Beloslav) On the Kurzweil-Stieltjes integral in ordered spaces. (English summary) **98m:26004**
Riečan, Beloslav *see* **Duchoň, Miloslav**, **98m:26004**

28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [see also 26E25, 54C60, 54C65, 90A14]

Appell, Jürgen Multifunctions of two variables: examples and counterexamples. (English summary) **98a:28009**
Castaing, Charles (*with* Ezzaki, Fatima; Hess, Christian) Convergence of conditional expectations for unbounded closed convex random sets. (English summary) **98i:28016**
Cheng, Lixin *see* **Xue, Xiao Ping; et al.**, **98f:28014**
Colombo, Rinaldo M. Representing a set valued map through a compact sequence of selections. (English summary) **98b:28019**
Duan, Qi Hong (*with* Zhang, Wen Xiu; Nie, Zan Kan) Existence of Radon-Nikodým derivatives of closed-set-valued measures. (Chinese. English and Chinese summaries) **98c:28011**
El-Sayed, Ahmed M. A. *see* **Ibrahim, A. G.**, **98a:28010**
Ezzaki, Fatima *see* **Castaing, Charles; et al.**, **98i:28016**
Hess, Christian *see* **Castaing, Charles; et al.**, **98i:28016**
Ibrahim, A. G. (*with* El-Sayed, Ahmed M. A.) Definite integral of fractional order for set-valued functions. (English summary) **98a:28010**
Li, Goucheng *see* **Xue, Xiao Ping; et al.**, **98f:28014**
Li, Guo Cheng (*with* Xue, Xiao Ping) Integral representations of set-valued measures. (Chinese. English and Chinese summaries)
Li, Yue (*with* Ma, Ju Xia; Ren, Xiao Hong) The theory of weak convergence of set-valued measures. (Chinese. English and Chinese summaries)
Lipovan, Octavian On the extension of probabilistic multivalued measures. (English summary)
— The probabilistic integrability of multivalued functions. (English summary)
Ma, Ju Xia *see* **Li, Yue; et al.**
Nie, Zan Kan *see* **Duan, Qi Hong; et al.**, **98c:28011**
Olko, Jolanta Semigroups of set-valued functions. (English summary) **98k:28019**
Papageorgiou, Nikolaos S. Convergence theorems for set-valued amarts and uniform amarts. (Russian summary) **98d:28007**
Precupanu, Anca-Maria A Brooks type integral with respect to a set-valued measure. (English summary) **98g:28013**
Ren, Xiao Hong *see* **Li, Yue; et al.**
Sun, Li Min[2] On the perfect additive set-valued measure. (English and Chinese summaries)
Sun, Yeneng Distributional properties of correspondences on Loeb spaces. (English summary) **98b:28020**
Xue, Xiao Ping (*with* Cheng, Lixin; Li, Goucheng; Yao, Xiaobo) Set valued measures and integral representation. (English summary) **98f:28014**
— *see also* **Li, Guo Cheng**
Yao, Xiaobo *see* **Xue, Xiao Ping; et al.**, **98f:28014**
Zhang, Wen Xiu *see* **Duan, Qi Hong; et al.**, **98c:28011**

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Appling, William D. L. A characterization theorem for the existence of a Hellinger-type integral. (English summary) **98e:28006**
Avgerinos, Evgenios P. (*with* Papageorgiou, Nikolaos S.) Differential variational inequalities in $\mathbf{R}^N$. (English summary) **98m:34027**
Balder, Erik J. (*with* Hess, Christian) Two generalizations of Komlós' theorem with lower closure-type applications. (English summary) **98c:49034**
— Consequences of denseness of Dirac Young measures. **98h:49048**
Cernea, Aurelian (*with* Mirică, Ştefan) Quasitangent differentiability and derived cones to reachable sets of control systems. (English summary) **98k:49023**
Gil, María Angeles *see* **López-Díaz, Miguel**
Guo, Xue Peng A class of set-valued processes with finite variation and their dual projections. (Chinese. English and Chinese summaries)
Hess, Christian *see* **Balder, Erik J.**, **98c:49034**
Jang, Lee-Chae (*with* Kil, B. M.; Kim, Yun Kyong; Kwon, Joong-Sung) Some properties of Choquet integrals of set-valued functions. (English summary)
Kil, B. M. *see* **Jang, Lee-Chae; et al.**
Kim, Yun Kyong *see* **Jang, Lee-Chae; et al.**
Kwon, Joong-Sung *see* **Jang, Lee-Chae; et al.**
López-Díaz, Miguel (*with* Gil, María Angeles) Constructive definitions of fuzzy random variables. (English summary)
Matejdes, Milan Cliquishness of multifunctions. (English summary) **98f:54023**
Meaya, Karo Caractérisation d'ensembles aléatoires gaussiens. (English and French summaries) [Characterization of Gaussian random sets] **98m:60017**
Mi, Ju Sheng *see* **Wu, Wei Zhi**, **98k:60015**
Michta, Mariusz Continuity properties of solutions of multivalued equations with white noise perturbation. (English summary) **98c:60073**
Mirică, Ştefan *see* **Cernea, Aurelian**, **98k:49023**
Nguyễn Đông Yên *see* **Phạm Hữu Sách**, **98d:47115**
Papageorgiou, Nikolaos S. *see* **Avgerinos, Evgenios P.**, **98m:34027**
Phạm Hữu Sách (*with* Nguyễn Đông Yên) Convexity criteria for set-valued maps. (English summary) **98d:47115**
Popa, Dumitru Pietsch integral operators defined on injective tensor products of spaces and applications. (English summary) **98j:46015**
Shen, Liang (*with* Wang, Zhenpeng) A new semi-order in superspace $P_{bf}(X)$ and its application. (English and Chinese summaries) **98h:60060**
Silin, D. B. Generalizing Hopf and Lax-Oleinik formulae via conjugate integral. (English summary) **98k:35019**
— On set-valued differentiation and integration. (English summary) **98f:58030**
Tao, Xiang Xing[1] (*with* Yang, Yi Min) Multivalued conditional expectations and the essential supremum. (Chinese. English and Chinese summaries)
Wang, Rong Ming (*with* Wang, Zhenpeng) Set-valued stationary processes with continuous parameter. I. Correspondence relation. (English and Chinese summaries)
Wang, Zhenpeng *see* **Shen, Liang**, **98h:60060** *and* **Wang, Rong Ming**
Wu, Wei Zhi (*with* Mi, Ju Sheng) Kuratowski convergence for a sequence of random sets. (Chinese. English and Chinese summaries) **98k:60015**
Yang, Yi Min *see* **Tao, Xiang Xing[1]**
Ziat, Hassan Martingales renversées et loi forte des grands nombres multivoque pour la topologie de Wijsman. (English and French summaries) [Reversed martingales and multivalued strong law of large numbers for the Wijsman topology] **98h:60061**
— Convergence theorems for Pettis integrable multifunctions. (English summary) **98i:46035**

28Cxx Set functions and measures on spaces with additional structure [see also 46G12, 58C35, 58D20]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures

Grubb, D. J. Signed quasi-measures. (English summary) **98c:28012**
Skala, Heinz J. On the characterization of certain similarly ordered super-additive functionals. (English summary) **98m:28022**
Zhou, Lin Integral representation of continuous comonotonically additive functionals. (English summary) **98h:28008**

Items with secondary classifications in 28C05

de Amo, E. (*with* Díaz Carrillo, M.) Fubini-Tonelli theorems with local integrals. **98m:28012**
Banakh, T. O. (*with* Radul, Taras) Topology of spaces of probability measures. (Russian. Russian summary) **98k:54055**
Díaz Carrillo, M. *see* **de Amo, E.**, **98m:28012**
Filter, Wolfgang Equivalence relations on Stonian spaces. (English summary) **98m:28010**
Levin, Vladimir L. Duality for a non-topological version of the mass transportation problem. (English summary) **98j:49045**
Loeb, Peter Albert (*with* Osswald, Horst) Nonstandard integration theory in topological vector lattices. (English summary) **98m:28046**
Magyar, Zoltán ★ The Lebesgue integral. (English summary) **98j:28001**
Osswald, Horst *see* **Loeb, Peter Albert**, **98m:28046**

Radul, Taras *see* **Banakh, T. O., 98k:54055**

28C10 Set functions and measures on topological groups, Haar measures, invariant measures [see also 22Axx, 43A05]

Hernández, Salvador On the existence of a Haar measure on a locally compact abelian group. (English summary)
Olshanskiĭ, Grigoriĭ (*with* Vershik, A. M.) Ergodic unitarily invariant measures on the space of infinite Hermitian matrices. (English summary) **98e:28015**
Vershik, A. M. *see* **Olshanskiĭ, Grigoriĭ, 98e:28015**
Zakrzewski, Piotr Extending invariant measures on topological groups. (English summary) **98g:28014**
— The uniqueness of Haar measure and set theory. **98m:28023**

Items with secondary classifications in 28C10

Choe, Geon H. Mean ergodic theorem and multiplicative cocycles. **98e:22001**
Dhar, Subhankar (*with* Mukherjea, Arunava) Convergence in distribution of products of i.i.d. nonnegative matrices. (English summary) **98f:60005**
Dokken, D. P. Idempotent measures associated to a locally compact topological group. (English summary) **98k:54074**
García-Mazario, Francisco *see* **Morales, Pedro, 98h:06033**
Jasinski, Jakub Large sets containing copies of small sets. (English summary) **98f:28001**
Laczkovich, Miklós (*with* Ruzsa, Imre Z.) Measure of sumsets and ejective sets. I. **98k:28013**
Morales, Pedro (*with* García-Mazario, Francisco) The support of a measure in ordered topological groups. **98h:06033**
Mukherjea, Arunava (*with* Ratti, J. S.) Continuous singularity of the weak limit of convolution powers of a discrete probability measure on 2×2 stochastic matrices. (English summary) **98g:60016**
— *see also* **Dhar, Subhankar, 98f:60005**
Nowik, Andrzej On a measure which measures at least one selector for every uncountable subgroup. (English summary) **98j:03065**
Ratti, J. S. *see* **Mukherjea, Arunava, 98g:60016**
Ruzsa, Imre Z. *see* **Laczkovich, Miklós, 98k:28013**
Witte, David Riley Correction and extension of: "Measurable quotients of unipotent translations on homogeneous spaces" [Trans. Amer. Math. Soc. **345** (1994), no. 2, 577–594; MR 95a:22005]. (English summary) **98c:22002**

28C15 Set functions and measures on topological spaces (regularity of measures, etc.)

Allan, James A. Topological properties of generalized Wallman spaces and lattice relations. (English summary) **98f:28015**
— Lattice repleteness and completeness in terms of abstract Wallman spaces. (English summary) **98i:28017**
Banakh, T. O. (*with* Radul, Taras) On the functor of Radon probability measures. (Ukrainian. English and Russian summaries)
Camacho, James, Jr. On topological properties of certain Wallman spaces. (English summary) **98c:28013**
Connell, Roy On the general Wallman remainder. (English summary) **98c:28014**
Das, Pratulananda *see* **Lahiri, B. K., 98f:28017**
Edalat, Abbas The Scott topology induces the weak topology. (English summary) **98m:28024**
Kubokawa, Yoshihiro Coverable Radon measures in topological spaces with covering properties. **98f:28016**
Lahiri, B. K. (*with* Das, Pratulananda) Measures in bitopological spaces. (English summary) **98f:28017**
Leonov, N. N. Measures on compact ultrametric spaces. (Russian. English and Russian summaries)
Mittag, Barry B. Normal lattices and coseparation of lattices. (English summary) **98e:28016**
Pfeffer, Washek F. Regularity and decomposability of Radon measures. (English summary) **98k:28020**
Plebanek, Grzegorz Nonseparable Radon measures and small compact spaces. (English summary) **98m:28025**
— A τ-additive measure without thick Lindelöf subset. (English summary) **98h:28009**
Radul, Taras *see* **Banakh, T. O.**
Şabac, Mihai On Lebesgue's criterion of Riemann integrability. (English summary) **98c:28015**
Stratigos, P. D. A measure-theoretic study of various modifications of compactness and the Lindelöf property. (English summary)
Sun, Yeneng Isomorphisms for convergence structures. II. Borel spaces and infinite measures. **98m:28026**
Traina, Charles On some properties and applications of general Wallman spaces. (English summary) **98c:28016**
Vlad, Carmen Outer measures: measurability, σ-smoothness and regularity. (English summary) **98c:28017**
— Regularity and σ-smoothness of μ''-measurable sets. (English summary) **98a:28011**
— On lattice-topological properties of general Wallman spaces. (English summary) **98j:28009**
Wibisono, Setiawati Smoothness, regularity, and domination of lattice measures. (English summary) **98c:28018**

Items with secondary classifications in 28C15

Boardman, John P. Quasi-measures on completely regular spaces. (English summary) **98e:46031**
Camacho, James, Jr. On characterization and properties of replete Wallman spaces. (English summary) **98m:28006**
Eid, George M. On Wallman spaces and the Lindelöf property. (English summary) **98h:54033**
Fan, Zhengfu *see* **Feng, Ding; et al., 98g:54043**
Feng, Ding (*with* Fan, Zhengfu; Wang, Yan Geng) The measure on S-closed spaces. II. (English and Chinese summaries) **98g:54043**
Filter, Wolfgang Equivalence relations on Stonian spaces. (English summary) **98m:28010**
Koumoullis, George Baire category in spaces of measures. **98b:54042**
Lasserre, Jean B. On the setwise convergence of sequences of measures. (English summary) **98m:28011**
Macheras, N. D. (*with* Strauss, Werner) The product-lifting for arbitrary products of complete probability spaces. **98b:28009**
Plachky, Detlef A useful σ-algebra for counter-examples in probability and statistics. (English summary) **98k:60005**
Stratigos, P. D. Paracompactness and measure. (English summary)
Strauss, Werner *see* **Macheras, N. D., 98b:28009**
Sultan, A. Some topological results on sets of measures defined on the structure space of Banach algebras. (English summary) **98d:46029**
Wang, Yan Geng *see* **Feng, Ding; et al., 98g:54043**
Wibisono, Setiawati Outer measure analysis of topological lattice properties. (English summary) **98f:28004**
Zakrzewski, Piotr The uniqueness of Haar measure and set theory. **98m:28023**
Zhou, Lin Integral representation of continuous comonotonically additive functionals. (English summary) **98h:28008**

28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [see also 46G12, 58C35, 58D20, 60B11]

Ahn, Byung Moo A class of the operator-valued Feynman integral. (English summary) **98j:28010**
Ahn, Jae Moon (*with* Chang, Kun Soo; Kim, Jeong Gyoo; Ko, Jung Won; Ryu, Kun Sik) Existence theorems of an operator-valued Feynman integral as an $\mathscr{L}(L_1, C_0)$ theory. **98m:28027**
Belokurov, V. V. (*with* Solov'ëv, Yuriĭ Petrovich; Shavgulidze, E. T.) Perturbation theory with convergent series for functional integrals with respect to the Feynman measure. (Russian)
Chang, Kun Soo *see* **Ahn, Jae Moon; et al., 98m:28027**
Chang, Seung Jun Convolution product and generalized analytic Fourier-Feynman transforms. (English summary) **98f:28018**
Chew, Tuan Seng (*with* Lee, Peng Yee) A Riemann-type definition of the Wiener integral. (English summary) (*see* **98k:60004**)
Choi, Ki Seong Capacity of a set of Hölder α-continuous functions in Wiener space. (English summary) **98e:28017**
Chung, Dong Myung (*with* Kang, Si Ho; Kang, Soon Ja) A class of conditional analytic Feynman integrals. (English summary) **98e:28018**
Egorov, A. D. On L_2-isomorphic Gaussian models for non-Gaussian distributions. (English summary) **98b:28021**
Fukuda, Ryoji Ornstein-Uhlenbeck semigroup and Fourier transform acting on positive finite measures on the Schwartz space. **98j:28011**
Kang, Si Ho *see* **Chung, Dong Myung; et al., 98e:28018**
Kang, Soon Ja *see* **Chung, Dong Myung; et al., 98e:28018**
Kim, Jeong Gyoo *see* **Ahn, Jae Moon; et al., 98m:28027**
Kim, Young Sik A change of scale formula for Wiener integrals of cylinder functions on abstract Wiener space. (English summary)
Ko, Jung Won *see* **Ahn, Jae Moon; et al., 98m:28027**
Lee, Peng Yee *see* **Chew, Tuan Seng, (98k:60004)**
Malyutin, V. B. Computation of path integrals of cylindrical functionals in the space of functions with values in Λ_1. (Russian. English and Russian summaries) **98a:28012**
Park, Chull (*with* Skoug, David) Conditional Wiener integrals. II. (English summary) **98d:28008**
— (*with* Skoug, David) Grid-valued conditional Yeh-Wiener integrals and a Kac-Feynman Wiener integral equation. (English summary) **98d:28009**
Ryu, Kun Sik *see* **Ahn, Jae Moon; et al., 98m:28027**
Segal, Irving Wiener space and nonlinear quantum field theory. **98m:28028**
Shavgulidze, E. T. *see* **Belokurov, V. V.; et al.**
Skoug, David *see* **Park, Chull, 98d:28008** *and* **98d:28009**
Solov'ëv, Yuriĭ Petrovich *see* **Belokurov, V. V.; et al.**
Wolf, Reinhard On the average distance property and certain energy integrals. (English summary) **98j:28012**
Yoo, Il The analytic Feynman integral over paths in abstract Wiener space. **98g:28015**

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Accardi, Luigi (*with* Smolyanov, O. G.) Transformations of Gaussian measures generated by the Lévy-Laplacian, and generalized traces. (Russian) **98c:46086**
— (*with* Smolyanov, O. G.; Smolyanova, M. O.) Change of variable formulas for infinite-dimensional distributions. (Russian) **98f:46041**
Adl-Zarabi, Kourosh (*with* Proppe, Harald) Existence of many ergodic absolutely continuous invariant measures for piecewise-expanding C^2 chaotic transformations in $\mathbf{R}^2$ on a fixed number of partitions. (English summary) **98j:58068**
Albeverio, Sergio (*with* Sengupta, Ambar) A mathematical construction of the non-abelian Chern-Simons functional integral. (English summary) **98j:58022**
Badrikian, Albert Transformation of Gaussian measures. **98f:60109**
Berezanskiĭ, Yuriĭ Makarovich Infinite-dimensional non-Gaussian analysis and generalized shift operators. (Russian) **98j:46043**
Bogachev, Vladimir I. Gaussian measures on linear spaces. **98a:60004**
Capiński, Marek (*with* Parker, June M.) Continuity of measures on Hilbert space. (English summary) **98c:28026**
Daletskiĭ, Yuriĭ L'vovich Introduction to non-Gaussian stochastic analysis. (English summary) **98d:60101**
Dedić, Ljuban Generalizations of Wiener measure and Brownian motion. (English and Croatian summaries) **98e:60134**

Hogbe Nlend, H. On quasi-invariant measures in topological vector spaces. (French. English and French summaries) **98m:46060**
Léandre, Rémi (*with* Norris, J. R.) Integration by parts and Cameron-Martin formulas for the free path space of a compact Riemannian manifold. **98i:58251**
Li, Bang-He (*with* Li, Ya-Qing) Optimal estimation of shell thickness in Cutland's construction of Wiener measure. (English summary) **98c:28027**
Li, Ya-Qing *see* **Li, Bang-He**, **98c:28027**
Martin, Philippe André[1] ★ Une initiation à l'intégrale fonctionnelle en physique quantique et statistique. (French. French summary) [Introduction to functional integrals in quantum physics and statistics] **98c:81114**
Mayer-Wolf, Eduardo Covariance inequalities induced by biorthogonal operators. (English summary) **98a:46053**
Norin, N. V. ★ The extended stochastic integral in linear spaces with differentiable measures and related topics. **98i:60049**
Norris, J. R. *see* **Léandre, Rémi**, **98i:58251**
Park, Chull (*with* Skoug, David) Linear transformations of multi-parameter Wiener integrals. (English summary) **98g:46059**
Parker, June M. *see* **Capiński, Marek**, **98c:28026**
Proppe, Harald *see* **Adl-Zarabi, Kourosh**, **98j:58068**
Sadasue, Gaku Equivalence-singularity dichotomy for the Wiener measures on path groups and loop groups. **98d:60108**
Sengupta, Ambar *see* **Albeverio, Sergio**, **98j:58022**
Shimomura, Hiroaki Canonical representations generated by translationally quasi-invariant measures. **98c:60006**
Skoug, David *see* **Park, Chull**, **98g:46059**
Smolyanov, O. G. *see* **Accardi, Luigi**, **98c:46086** *and* **98f:46041**
Smolyanova, M. O. *see* **Accardi, Luigi; et al.**, **98f:46041**
Sokhadze, G. A. On the absolute continuity of smooth measures. (English summary) **98b:60011**
Sun, Yong Sheng (*with* Wang, Chengyong) Average error bounds of best approximation in a Banach space with Gaussian measure. (English summary) **98h:41045**
Üstünel, Ali Süleyman (*with* Zakai, Moshe) Absolute continuity of monotone shifts on the Wiener space. (English summary) **98b:60082**
— (*with* Zakai, Moshe) Degree theory on Wiener space. (English summary) **98e:58179**
Wang, Chengyong *see* **Sun, Yong Sheng**, **98h:41045**
Zakai, Moshe *see* **Üstünel, Ali Süleyman**, **98b:60082** *and* **98e:58179**

28C99 None of the above, but in this section

Items with secondary classifications in 28C99

de Lucia, Paolo (*with* Pap, Endre) Nikodým convergence theorem for uniform space valued functions defined on D-posets. (English summary) **98b:28005**
Pap, Endre *see* **de Lucia, Paolo**, **98b:28005**

28Dxx Measure-theoretic ergodic theory [see also 11K50, 11K55, 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]

28D05 Measure-preserving transformations

Adams, Terrence (*with* Friedman, Nathaniel; Silva, Cesar E.) Rank-one weak mixing for nonsingular transformations. (English summary) **98j:28013**
Ageev, O. N. Spectral type of rearrangements of $T_{\alpha,g}$. (Russian. Russian summary) **98m:28029**
Antonevich, Anatolii B. *see* **Dolićanin, Ćemal; et al.**
Antoniou, Ioannis E. (*with* Bosco, F.; Suchanecki, Zdzislaw) Spectral decomposition of expanding probabilistic dynamical systems. (English summary)
Ashley, Jonathan J. (*with* Marcus, Brian H.; Tuncel, Selim) The classification of one-sided Markov chains. (English summary) **98k:28021**
Beleznay, Ferenc (*with* Foreman, Matthew) The complexity of the collection of measure-distal transformations. (English summary) **98f:28019**
Bénéteau, C. A natural extension of a nonsingular endomorphism of a measure space. **98g:28016**
Bergelson, Vitaly Ergodic Ramsey theory—an update. **98g:28017**
Biró, A. On L_∞ universally bad sequences in ergodic theory. **98m:28030**
Bogenschütz, Thomas (*with* Kowalski, Zbigniew S.) Exactness of skew products with expanding fibre maps. (English summary) **98a:28013**
Bosco, F. *see* **Antoniou, Ioannis E.; et al.**
Buczolich, Zoltán Arithmetic averages of rotations of measurable functions. (English summary) **98g:28018**
Burnecki, M. Equality of coarse topologies in inverse transformations. (English summary) **98m:28031**
Cawley, Elise (*with* Marcus, Brian H.; Tuncel, Selim) Boundary measures of Markov chains. (English summary) **98f:28020**
Chakvetadze, G. On the ergodicity of a model of drilling. (English summary) **98b:28022**
Courbage, Maurice (*with* Hamdan, D.) Decay of correlations and mixing properties in a dynamical system with zero K-S entropy. (English summary) **98k:28022**
Dajani, Karma (*with* Dooley, Anthony H.) The mean ratio set for $ax + b$ valued cocycles. (English summary) **98g:28019**
Derrien, Jean-Marc Sur l'existence de cohomologues réguliers pour les cocycles intégrables. [Existence of regular cohomologues for integrable cocycles] **98m:28032**
— (*with* Lesigne, Emmanuel) Un théorème ergodique polynomial ponctuel pour les endomorphismes exacts et les K-systèmes. (English and French summaries) [A pointwise polynomial ergodic theorem for exact endomorphisms and K-systems] **98k:28023**
Ding, Jiu Decomposition theorems for Koopman operators. **98b:28023**
— Absolutely continuous invariant measure of a piecewise concave mapping of [0, 1]. **98c:28019**
Dolićanin, Ćemal (*with* Antonevich, Anatolii B.; Stefanović, Milisav) Invariant and ergodic measures in relation to movement of invariant. (English summary)
Dooley, Anthony H. *see* **Dajani, Karma**, **98g:28019**
Dzhalilov, A. A. (*with* Khanin, K. M.) On an invariant measure for homeomorphisms of the circle with one break point. (Russian)
Fan, Ai Hua A refinement of an ergodic theorem and its application to Hardy functions. (English and French summaries) **98d:28010**
Ferenczi, Sébastien Systems of finite rank. **98g:28020**
Filipowicz, I. Product $\mathbf{Z}^d$-actions on a Lebesgue space and their applications. (English summary) **98c:28020**
Foreman, Matthew *see* **Beleznay, Ferenc**, **98f:28019**
Frączek, Krzysztof M. Cyclic space isomorphism of unitary operators. (English summary) **98m:28033**
Frankiewicz, Ryszard (*with* Plebanek, Grzegorz) On asymptotic density and uniformly distributed sequences. (English summary) **98d:28011**
Friedman, Nathaniel *see* **Adams, Terrence; et al.**, **98j:28013**
Furman, Alex On the multiplicative ergodic theorem for uniquely ergodic systems. (English and French summaries) **98i:28018**
Furstenberg, Harry (*with* Weiss, Benjamin) A mean ergodic theorem for $(1/N)\sum_{n=1}^{N} f(T^n x)g(T^{n^2}x)$. **98e:28019**
Gamet, Catherine (*with* Schneider, Dominique) Théorèmes ergodiques multidimensionnels et suites aléatoires universellement représentatives en moyenne. (English and French summaries) [Multidimensional ergodic theorems and random sequences universally representative in the mean] **98f:28021**
Goodson, Geoffrey R. The structure of ergodic transformations conjugate to their inverses. (English summary) **98g:28021**
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— Spectral properties of skew-product diffeomorphisms of tori. **98g:28022**
— (*with* Lemańczyk, Mariusz; de la Rue, T.; de Sam Lazaro, J.) Quelques remarques sur les facteurs des systèmes dynamiques gaussiens. (English summary) [Some remarks on the factors of Gaussian dynamical systems] **98m:28035**
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— *see also* **Prikhod'ko, A. A.**, **98k:28026**
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Assani, I. Strong laws for weighted sums of independent identically distributed random variables. **98g:60059**
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Filipowicz, I. Product $\mathbf{Z}^d$-actions on a Lebesgue space and their applications. (English summary) **98c:28020**
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Schmidt, Klaus[1] From infinitely divisible representations to cohomological rigidity. **98i:22009**
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Ward, Thomas Boulton Rescaling of Markov shifts. (English summary) **98d:58053**
Witte, David Riley Correction and extension of: "Measurable quotients of unipotent translations on homogeneous spaces" [Trans. Amer. Math. Soc. **345** (1994), no. 2, 577–594; MR 95a:22005]. (English summary) **98c:22002**

28D20 Entropy and other invariants

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Berthé, Valérie Entropy in deterministic and random systems. **98b:28029**
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Aydın, Bünyamin On the rotation entropy function for flows. (English and Turkish summaries)
Barreira, Luis M. A non-additive thermodynamic formalism and applications to dimension theory of hyperbolic dynamical systems. (English summary) **98a:58124**
Blanchard, François (*with* Maass, Alejandro) Dynamical properties of expansive one-sided cellular automata. (English summary) **98g:58089**
— (*with* Kwiatkowski, Jan) Minimal self-joinings and positive topological entropy. II. (English summary) **98m:54042**
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— Erratum to: "Number of equilibrium states of piecewise monotonic maps of the interval" [Proc. Amer. Math. Soc. **123** (1995), no. 9, 2901–2907; MR 95k:58091]. **98c:58090**
Cai, Xiao Qiu Statistical properties of multifractal parameters. (Chinese. English and Chinese summaries)
Chen, Er Cai (*with* Xiong, Jin Cheng) Dimension and measure theoretic entropy of a subshift in symbolic space.
Courbage, Maurice (*with* Hamdan, D.) Decay of correlations and mixing properties in a dynamical system with zero K-S entropy. (English summary) **98k:28022**
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Góra, Paweł (*with* Boyarsky, Abraham; Lou, Y. S.) Lyapunov exponents for higher-dimensional random maps. (English summary) **98h:58103**
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Zhiglyavskiĭ, A. A. *see* **Pronzato, Luc; et al., 98m:94015**

28D99 None of the above, but in this section

Akcoglu, Mustafa A. (*with* Ha, Dzung M.; Jones, Roger L.) Sweeping out properties of operator sequences. (English summary) **98b:28031**
Cerveau, D. (*with* Conze, J.-P.; Raugi, Albert) Ensembles invariants pour un opérateur de transfert dans $\mathbf{R}^d$. (English and French summaries) [Invariant sets for a transfer operator in $\mathbf{R}^d$] **98m:28044**
Conze, J.-P. *see* **Cerveau, D.; et al., 98m:28044**
Dajani, Karma (*with* Hawkins, Jane) A construction of a non-measure-preserving endomorphism using quotient relations and automorphic factors. **98g:28030**
Gamet, Catherine ★ Théorèmes de convergence en moyenne et entropie métrique en théorie ergodique. (French. French summary) [Theorems of convergence in the mean and metric entropy in ergodic theory] **98e:28024**
Ha, Dzung M. *see* **Akcoglu, Mustafa A.; et al., 98b:28031**
Hawkins, Jane *see* **Dajani, Karma, 98g:28030**
Hofbauer, Franz The fractal dimension of invariant subsets for piecewise monotonic maps on the interval. (English summary) **98b:28032**
— The box dimension of completely invariant subsets for expanding piecewise monotonic transformations. (English summary) **98b:28033**
Jones, Roger L. *see* **Akcoglu, Mustafa A.; et al., 98b:28031**
del Junco, Andrés (*with* Silva, Cesar E.) Prime type III_λ automorphisms: an instance of coding techniques applied to non-singular maps. (English summary) **98f:28026**
Kieffer, John C. (*with* Yang, En-hui) Ergodic behavior of graph entropy. (English summary) **98a:28016**
Mohseni Moghadam, Mahmoud (*with* Sabeti, R.) Markov finite approximation of Frobenius-Perron operator with doubly-stochastic tridiagonal action matrix. (English summary) (*see* **98h:00035**)
— (*with* Panahi, Mehdi) Some aspects of the Frobenius-Perron operator. (English summary) (*see* **98h:00035**)
— *see also* **Panahi, Mehdi, (98h:00035)**
Panahi, Mehdi (*with* Mohseni Moghadam, Mahmoud) On the inverse Frobenius-Perron problem. (English summary) (*see* **98h:00035**)

— *see also* **Mohseni Moghadam, Mahmoud**, (**98h:00035**)
Raugi, Albert *see* **Cerveau, D.; et al., 98m:28044**
Sabeti, R. *see* **Mohseni Moghadam, Mahmoud**, (**98h:00035**)
Silva, Cesar E. *see* **del Junco, Andrés, 98f:28026**
Tarafdar, Enayet (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) Poincare's recurrence theorems for set-valued dynamical systems. (English summary)
Watson, Peter Jonothan *see* **Tarafdar, Enayet; et al.**
Weiss, Benjamin Measurable entire functions. (English summary) **98f:28027**
Yang, En-hui *see* **Kieffer, John C., 98a:28016**
Yuan, Xian-Zhi *see* **Tarafdar, Enayet; et al.**

Items with secondary classifications in 28D99

Antonevich, Anatolii B. (*with* Buraczewski, Adam) Dynamics of linear mapping and invariant measures on sphere.
Barbolosi, D. Une application due théorème ergodique sous-additif à la théorie métrique des fractions continues. (English summary) [An application of the subadditive ergodic theorem to the metric theory of continued fractions] **98j:11060**
Barnes, Julia A. Applications of noninvertible ergodic theory to rational maps of the sphere. (English summary) **98j:58095**
Bisbas, A. (*with* Karanikas, C.; Proios, G.) On the distribution of digits in dyadic expansions. (English summary) **98m:11084**
Buraczewski, Adam *see* **Antonevich, Anatolii B.**
Çömez, Doğan (*with* Lin, Michael; Olsen, James) Weighted ergodic theorems for mean ergodic L_1-contractions. (English summary) **98d:47028**
Dooley, Anthony H. Recent results on G-measures. (English summary) (*see* **98k:60004**)
Fisch, Robert (*with* Gravner, Janko) One-dimensional deterministic Greenberg-Hastings models. (English summary) **98c:68147**
Friedland, Shmuel On the entropy of $\mathbf{Z}^d$ subshifts of finite type. (English summary) **98b:54052**
Gravner, Janko *see* **Fisch, Robert, 98c:68147**
Ivanov, V. V. Geometric properties of monotone functions and the probabilities of random oscillations. (Russian. Russian summary) **98m:28008**
Kamae, Teturo Deterministic Brownian motions. (*see* **97b:00026**)
Karanikas, C. *see* **Bisbas, A.; et al., 98m:11084**
Kawamura, Shinzo Covariant representations associated with chaotic dynamical systems. (English summary) **98e:46084**
Kurths, Jürgen *see* **Zaks, Mikhail A.; et al., 98k:11021**
Lin, Michael *see* **Çömez, Doğan; et al., 98d:47028**
Louveau, Alain (*with* Mokobodzki, Gabriel) On measures ergodic with respect to an analytic equivalence relation. (English summary) **98h:04002**
Mohseni Moghadam, Mahmoud *see* **Rahmani, M.**, (**98h:00035**)
Mokobodzki, Gabriel *see* **Louveau, Alain, 98h:04002**
Morawiec, Janusz On a linear functional equation. (English summary) **98c:39009**
Nair, Radhakrishnan On the metric theory of the optimal continued fraction expansion. (English summary) **98f:11083**
Olsen, James *see* **Çömez, Doğan; et al., 98d:47028**
Pikovskiĭ, A. S. *see* **Zaks, Mikhail A.; et al., 98k:11021**
Proios, G. *see* **Bisbas, A.; et al., 98m:11084**
Przytycki, Feliks Iterations of holomorphic Collet-Eckmann maps: conformal and invariant measures. Appendix: on non-renormalizable quadratic polynomials. (English summary) **98d:58155**
Rahmani, M. (*with* Mohseni Moghadam, Mahmoud) Approximation of the fixed-point of the Frobenius-Perron operator by B-splines. (English summary) (*see* **98h:00035**)
Ruch, Jean-Jacques (*with* Weber, Michel Jean Georges) Quelques résultats dans la théorie des sommes riemanniennes. (English summary) [Some results in the theory of Riemannian sums] **98j:26005**
Starkov, A. N. New progress in the theory of homogeneous flows. (Russian) **98k:22047**
Sütő, András Schrödinger difference equation with deterministic ergodic potentials. (English summary) **98m:39053**
Tok, İsmail On the fuzzy conditional sequence entropy function. (English and Turkish summaries)
Trapie, Janusz On the asymptotic stability of Markov semigroups. (English summary) **98g:60130**
Tresser, Charles (*with* Worfolk, Patrick) Chaotic signal masking with arbitrarily fine recovery. (English summary) **98m:94009**
Tukia, Pekka Conservative action and the horospheric limit set. (English summary) **98i:30057**
Vitale, Richard A. Parametrizing doubly stochastic measures. (English summary) **98k:28014**
Weber, Michel Jean Georges *see* **Ruch, Jean-Jacques, 98j:26005**
Worfolk, Patrick *see* **Tresser, Charles, 98m:94009**
Zaharopol, Radu On invariant elements for positive operators. (English summary) **98e:47017**
Zaks, Mikhail A. (*with* Pikovskiĭ, A. S.; Kurths, Jürgen) On the correlation dimension of the spectral measure for the Thue-Morse sequence. (English summary) **98k:11021**

28Exx Miscellaneous topics in measure theory

28E05 Nonstandard measure theory [see also 03H05, 26E35]

Capiński, Marek (*with* Parker, June M.) Continuity of measures on Hilbert space. (English summary) **98c:28026**
Chen, Dong Li Radon-Nikodym derivative on Loeb space. (English and Chinese summaries) **98m:28045**
Feldman, David V. Doubly stochastic measures: three vignettes. (English summary) **98k:28031**
Feneyrol-Perrin, Yvette Moyennées sur des ensembles hyperfinis. [Averaged values on hyperfinite sets] (*see* **98a:00009**)
Li, Bang-He (*with* Li, Ya-Qing) Optimal estimation of shell thickness in Cutland's construction of Wiener measure. (English summary) **98c:28027**
Li, Ya-Qing *see* **Li, Bang-He, 98c:28027**
Loeb, Peter Albert (*with* Osswald, Horst) Nonstandard integration theory in topological vector lattices. (English summary) **98m:28046**
Mawhin, Jean Intégration et analyse non standard. [Integration and nonstandard analysis] (*see* **98h:03084**)
Osswald, Horst *see* **Loeb, Peter Albert, 98m:28046**
Parker, June M. *see* **Capiński, Marek, 98c:28026**

Items with secondary classifications in 28E05

Benedikt, Michael Nonstandard analysis in selective universes. **98b:03092**
Gordon, E. I. ★ Nonstandard methods in commutative harmonic analysis. (English summary) **98f:03056**
Hsu, Leetsch Charles *see* **Sun, Guangrun, 98a:60087**
Keisler, H. Jerome Rich and saturated adapted spaces. **98i:60002**
(McFaden, H. H.) *see* **Gordon, E. I., 98f:03056**
Sun, Guangrun (*with* Hsu, Leetsch Charles) The use of nonstandard Möbius inversion to solve stochastic Volterra integral equations. (English and Chinese summaries) **98a:60087**
Sun, Yeneng Distributional properties of correspondences on Loeb spaces. (English summary) **98b:28020**

28E10 Fuzzy measure theory [see also 04A72, 26E50, 94D05]

Avallone, Anna (*with* Barbieri, Giuseppina) Range of finitely additive fuzzy measures. (English summary) **98b:28034**
Baldwin, J. F. (*with* Lawry, J.; Martin, T. P.) A note on the conditional probability of fuzzy subsets of a continuous domain. (English summary)
Ban, Adrian I. (*with* Fechete, I.) The application of t-measures of fuzziness. (English summary)
Barbieri, Giuseppina *see* **Avallone, Anna, 98b:28034**
Bronevich, A. G. (*with* Karkishchenko, A. N.) Generalization of the concept of a statistical class and the measure of possibility inclusion. (Russian. Russian summary)
Cheng, Lixin *see* **Ha, Minghu; et al.**
Criado, F. (*with* Gachechiladze, T.) Fuzzy random events and their corresponding conditional probability measures. (English summary) **98e:28025**
De Baets, Bernard *see* **Tsiporkova-Hristoskova, Elena**
Debiève, Camille (*with* Duchoň, Miloslav; Riečan, Beloslav) Moment problem in some ordered vector spaces. (English summary) **98k:28032**
De Cooman, Gert Possibility theory. I. The measure- and integral-theoretic groundwork. (English summary) **98b:28035a**
— Possibility theory. II. Conditional possibility. (English summary) **98b:28035b**
— Possibility theory. III. Possibilistic independence. (English summary) **98b:28035c**
Denneberg, Dieter Representation of the Choquet integral with the σ-additive Möbius transform. (English summary) **98h:28013**
Dubois, Didier (*with* Prade, Henri) Bayesian conditioning in possibility theory. (English summary) **98g:28031**
Duchoň, Miloslav (*with* Kolesárová, Anna) Fourier transforms of complex measures on some compact semigroups. (English summary) **98k:28033**
— *see also* **Debiève, Camille; et al., 98k:28032**
Fazekas, István A note on "optimal measures". (English summary)
Fechete, I. *see* **Ban, Adrian I.**
Fujimoto, Katsushige (*with* Murofushi, Toshiaki) Some characterizations of the systems represented by Choquet and multi-linear functionals through the use of Möbius inversion. (English summary)
— *see also* **Murofushi, Toshiaki; et al.**
Gachechiladze, T. *see* **Criado, F., 98e:28025**
Grabisch, Michel k-order additive discrete fuzzy measures and their representation. (English summary) **98h:28014**
— Alternative representations of discrete fuzzy measures for decision making. (English summary)
— Fuzzy measures and integrals for decision making and pattern recognition. (*see* **98e:04004**)
Guo, Caimei (*with* Zhang, Deli; Wu, Cong Xin) Generalized fuzzy integrals of fuzzy-valued functions. (English summary)
— *see also* **Wu, Cong Xin; et al.**
Ha, Minghu (*with* Wang, Xizhao) Some notes on the regularity of fuzzy measures on metric spaces. (English summary) **98g:28032**
— (*with* Cheng, Lixin; Wang, Xizhao) Notes on Riesz's theorem on fuzzy measure space. (English summary)
— (*with* Wang, Xizhao; Wu, Cong Xin) Fundamental convergence of sequences of measurable functions on fuzzy measure space. (English summary)
Harding, John (*with* Marinacci, Massimo; Nguyen, Nhu T.; Wang, Tonghui) Local Radon-Nikodym derivatives of set functions. **98m:28047**
Harmanec, David *see* **Klir, George J.; et al.**
Hong, Dug Hun (*with* Kim, Hoyong) A note to the sum of fuzzy variables. (English summary)
— A note on correlation of interval-valued intuitionistic fuzzy sets. (English summary)
Hou, Ren En Product fuzzy number measures of product spaces. (English summary)
Imaoka, Haruki On a subjective evaluation model by a generalized fuzzy integral. (English summary)
Jang, Lee-Chae (*with* Kil, B. M.; Kim, Yun Kyong; Kwon, Joong-Sung) Some properties of Choquet integrals of set-valued functions. (English summary)
Ji, Ai Bing Fuzzy measure on locally compact space. (English summary)
Jiang, Qingshan (*with* Suzuki, Hisakichi; Wang, Zhenyuan; Klir, George J.) Exhaustivity and absolute continuity of fuzzy measures. (English summary)
Kambara, Hiroshi *see* **Matsushita, Yutaka[2]**
Karkishchenko, A. N. *see* **Bronevich, A. G.**
Kil, B. M. *see* **Jang, Lee-Chae; et al.**
Kim, Hoyong *see* **Hong, Dug Hun**

Kim, Yun Kyong *see* **Jang, Lee-Chae; et al.**
Klir, George J. (*with* Wang, Zhenyuan; Harmanec, David) Constructing fuzzy measures in expert systems. (English summary)
— *see also* **Jiang, Qingshan; et al.**
Kolesárová, Anna On the integral representation of possibility measures of fuzzy events. (English summary)
— *see also* **Duchoň, Miloslav**, **98k:28033**
Kwon, Joong-Sung *see* **Jang, Lee-Chae; et al.**
Lawry, J. *see* **Baldwin, J. F.; et al.**
Li, Jun[4] Convergence for sequence of fuzzy measurable functions on fuzzy-number-valued fuzzy measure spaces. (English summary)
Li, Ruixiang *see* **Li, Xiaoqi; et al.**
Li, Xiao-ping *see* **Wang, Gui Jun**
Li, Xiaoqi (*with* Wang, He; Li, Ruixiang; Qiao, Zhong) Extensions of a class of semi-continuous fuzzy measures. (English summary)
Liu, Xuecheng On the product of two fuzzy measures. (English summary)
Liu, Yaping (*with* Zhang, Guangquan; Zhou, Ziliang) Fuzzy number-valued integral with respect to fuzzy number-valued measure on the fuzzy set. (English summary)
Ma, Bo Interval-valued conditional expectations and fuzzy conditional expectations. (Chinese. English and Chinese summaries)
— Conditional S_r-measures and product S_r-measures generated by S_r-kernels. (Chinese. English and Chinese summaries)
Marinacci, Massimo *see* **Harding, John; et al.**, **98m:28047**
Martin, T. P. *see* **Baldwin, J. F.; et al.**
Matsushita, Yutaka[2] (*with* Kambara, Hiroshi) Partition type fuzzy integral model for evaluation process. (English summary)
— (*with* Kambara, Hiroshi) Errata: "Partition type fuzzy integral model for evaluation process" [Internat. J. Uncertain. Fuzziness Knowledge-Based Systems **5** (1997), no. 5, 531–545].
Mesiar, Radko Pseudo-linear integrals and derivatives based on a generator g. (English summary) (*see* **98d:00022**)
— Possibility measures, integration and fuzzy possibility measures. (English summary)
— A note to the Choquet integral. (English summary) (*see* **98i:00019**)
Murofushi, Toshiaki (*with* Sugeno, Michio; Suzaki, Manabu) Autocontinuity, convergence in measure, and convergence in distribution. (English summary)
— (*with* Sugeno, Michio; Fujimoto, Katsushige) Separated hierarchical decomposition of the Choquet integral. (English summary)
— *see also* **Fujimoto, Katsushige**
Nguyen, Nhu T. *see* **Harding, John; et al.**, **98m:28047**
Pap, Endre Decompositions of null-additive set functions. (English summary) **98h:28015**
— Decomposable measures and nonlinear equations. (English summary) **98m:28048**
Prade, Henri *see* **Dubois, Didier**, **98g:28031**
Qiao, Zhong *see* **Li, Xiaoqi; et al.**
Ralescu, Anca L. (*with* Ralescu, Dan A.) Extensions of fuzzy aggregation. (English summary) **98a:28017**
Ralescu, Dan A. *see* **Ralescu, Anca L.**, **98a:28017**
Ren, Yan Xia (*with* Suo, Xiu Yun; Zhai, Jian Ren) Random fuzzy sets and random sets. (Chinese. English and Chinese summaries)
Riečan, Beloslav *see* **Debiève, Camille; et al.**, **98k:28032**
Samuel, M. S. Fuzzy Daniell integral. III. (English summary)
— Fuzzy Daniell integral. II. (English summary)
Shi, Peilin *see* **Song, Shiji; et al.**, **98b:28036**
Song, Shiji (*with* Shi, Peilin; Wang, Hai Yan[3]) The convergence of (DG) fuzzy integrals. (English summary) **98b:28036**
Sugeno, Michio *see* **Murofushi, Toshiaki; et al.**
Suo, Xiu Yun *see* **Ren, Yan Xia; et al.**
Suzaki, Manabu *see* **Murofushi, Toshiaki; et al.**
Suzuki, Hisakichi *see* **Jiang, Qingshan; et al.**
Tok, İsmail On the fuzzy conditional sequence entropy function. (English and Turkish summaries)
Tsiporkova-Hristoskova, Elena (*with* De Baets, Bernard) A general framework for upper and lower possibilities and necessities. (English summary)
Wang, Gui Jun (*with* Li, Xiao-ping) On the convergence of the fuzzy valued functional. (English summary)
Wang, Hai Yan[3] *see* **Song, Shiji; et al.**, **98b:28036**
Wang, He *see* **Li, Xiaoqi; et al.**
Wang, Jia Fang Absolute continuity of fuzzy measures. (Chinese. English and Chinese summaries) **98b:28037**
Wang, Shaun S. *see* **Young, Virginia R.**
Wang, Tonghui *see* **Harding, John; et al.**, **98m:28047**
Wang, Xizhao *see* **Ha, Minghu**, **98g:28032**
Wang, Zhenyuan Convergence theorems for sequences of Choquet integrals. (English summary)
— *see also* **Klir, George J.; et al.** *and* **Jiang, Qingshan; et al.**
Weber, Siegfried Conditioning on MV-algebras and additive measures. I. (English summary) **98g:28033**
Wu, Cong *see* **Wu, Cong Xin**
Wu, Cong Xin (*with* Zhang, Deli; Guo, Caimei) Generalized fuzzy integrals with respect to fuzzy number fuzzy measures. (English summary)
— (*with* Wu, Cong) A note of the RSu integrals of fuzzy-valued functions. (English summary)
— *see also* **Ha, Minghu; et al.** *and* **Guo, Caimei; et al.**
Wu, Hsien-Chung The fuzzy Riemann-Stieltjes integral. (English summary)
Young, Virginia R. (*with* Wang, Shaun S.) Updating non-additive measures with fuzzy information. (English summary)
Zhai, Jian Ren *see* **Ren, Yan Xia; et al.**
Zhang, Deli *see* **Wu, Cong Xin; et al.** *and* **Guo, Caimei; et al.**
Zhang, Guangquan *see* **Liu, Yaping; et al.**
Zhou, Ziliang *see* **Liu, Yaping; et al.**

Items with secondary classifications in 28E10

Ban, Adrian I. Entropy of fuzzy $\mathcal{J}$-dynamical systems. (English summary)
Bouchon-Meunier, Bernadette (*with* Rifqi, Maria) A framework to unify and generate measures of comparison. (English summary) **98j:04002**
Bugajski, S. (*with* Hellwig, K.-E.; Stulpe, W.) On fuzzy random variables and statistical maps. (English summary)
Cheng, Ben Su Interval-valued fuzzy random variables. I. Interval-valued fuzzy numbers. (Chinese. English and Chinese summaries) **98g:04004**
Corral Blanco, Norberto (*with* Gil, María Angeles; López-García, Hortensia) The fuzzy hyperbolic inequality index of fuzzy random variables in finite populations. (English summary) (*see* **98g:00019**)
Diday, Edwin (*with* Emilion, Richard) Treillis de Galois maximaux et capacités de Choquet. (English and French summaries) [Maximal Galois lattices and Choquet capacities] **98c:06004**
Emilion, Richard *see* **Diday, Edwin**, **98c:06004**
Gil, María Angeles *see* **López-Díaz, Miguel** *and* **Corral Blanco, Norberto; et al.**, (**98g:00019**)
Hellwig, K.-E. *see* **Bugajski, S.; et al.**
Honda, Aoi (*with* Okazaki, Yoshiaki; Yamaguchi, Shinji) Fuzzy measures and subjective evaluation problems. (Japanese) (*see* **98e:00020**)
Klement, Erich Peter Some mathematical aspects of fuzzy sets: triangular norms, fuzzy logics, and generalized measures. (English summary) **98g:04010**
Kleyle, R. (*with* de Korvin, A.) Using the extension theorem to define fuzzy expectation. (English summary)
de Korvin, A. *see* **Kleyle, R.**
Kramosil, Ivan An axiomatic approach to extensional probability measures. (English summary) **98c:03058**
Kreinovich, Vladik Random sets unify, explain, and aid known uncertainty methods in expert systems. (English summary) (*see* **98g:60005**)
López-Díaz, Miguel (*with* Gil, María Angeles) Constructive definitions of fuzzy random variables. (English summary)
López-García, Hortensia *see* **Corral Blanco, Norberto; et al.**, (**98g:00019**)
Ma, Bo Complex interval-valued conditional expectation and complex fuzzy conditional expectation. (Chinese. English and Chinese summaries)
Murofushi, Toshiaki Choquet integral models and the multiattribute utility theory. (*see* **98e:00020**)
Nguyen, Hung Trung (*with* Wang, Tonghui) Belief functions and random sets. (English summary) (*see* **98g:60005**)
— (*with* Nguyen, Nhu T.) Random sets in decision-making. (English summary) (*see* **98g:60005**)
Nguyen, Nhu T. *see* **Nguyen, Hung Trung**, (**98g:60005**)
Okazaki, Yoshiaki *see* **Honda, Aoi; et al.**, (**98e:00020**)
Pyt'ev, Yu. P. Foundations of possibility theory. Methods for optimal estimation and decision making. I. Possibility measure: definition and properties. (Russian. Russian summary)
— Foundations of possibility theory. Methods for optimal estimation and decision making. II. Possibility measure: definition, properties, and integration with respect to possibility and necessity. (Russian. Russian summary)
Rifqi, Maria *see* **Bouchon-Meunier, Bernadette**, **98j:04002**
Stulpe, W. *see* **Bugajski, S.; et al.**
Tan, Yuan Fa *see* **Zeng, An Jun**
Wang, Tonghui *see* **Nguyen, Hung Trung**, (**98g:60005**)
Watanabe, Norio Fuzzy random variables and statistical inference. (English summary)
Yamaguchi, Shinji *see* **Honda, Aoi; et al.**, (**98e:00020**)
Zeng, An Jun (*with* Tan, Yuan Fa) A method for synthesizing information from several independent sources. (Chinese. English and Chinese summaries)

28E99 None of the above, but in this section

Items with secondary classifications in 28E99

Gerver, M. L. (*with* Kudryavtseva, E. A.) Universal sequence in the classical hodograph inversion problem. (Russian. Russian summary) **98j:73039**
Kudryavtseva, E. A. *see* **Gerver, M. L.**, **98j:73039**
Vervaat, Wim Random upper semicontinuous functions and extremal processes. (English summary) **98j:60002**

30–XX Functions of a complex variable {For analysis on manifolds, see 58–XX.}

30–01 Instructional exposition (textbooks, tutorial papers, etc.)

Ablowitz, Mark J. (*with* Fokas, Athanassios S.) ★ Complex variables: introduction and applications. (English summary) **98b:30001**
Andersson, Mats E. L. ★ Topics in complex analysis. (English summary) **98a:30001**
Antimirov, M. Yu. (*with* Kolyshkin, A. A.; Vaillancourt, Rémi) ★ Complex variables.
Chuesbev, V. V. (*with* Chuesheva, N. A.) ★ Справочное пособие по теории функций комплексного переменного. Часть I. (Russian. Russian summary) [A reference manual in the theory of functions of a complex variable. Part I] **98a:30002a**
– (*with* Chuesheva, N. A.) ★ Справочное пособие по теории функций комплексного переменного. Часть II. (Russian. Russian summary) [A reference manual in the theory of functions of a complex variable. Part II] **98a:30002b**
– (*with* Chuesheva, N. A.) ★ Справочное пособие по теории функций комплексного переменного. Часть III. (Russian. Russian summary) [A reference manual in the theory of functions of a complex variable. Part III] **98a:30002c**
Chuesheva, N. A. *see* **Chuesbev, V. V., 98a:30002a; 98a:30002b** *and* **98a:30002c**
Fokas, Athanassios S. *see* **Ablowitz, Mark J., 98b:30001**
Greene, Robert E. (*with* Krantz, Steven G.) ★ Function theory of one complex variable. (English summary) **98d:30001**
Kolyshkin, A. A. *see* **Antimirov, M. Yu.; et al.**
Krantz, Steven G. *see* **Greene, Robert E., 98d:30001**
Needham, Tristan ★ Visual complex analysis. **98g:30001**
Noguchi, Junjiro ★ Introduction to complex analysis. **98m:30001**
Vaillancourt, Rémi *see* **Antimirov, M. Yu.; et al.**

30–02 Research exposition (monographs, survey articles)

Fine, Benjamin (*with* Rosenberger, Gerhard) ★ The fundamental theorem of algebra. (English summary) **98h:30001**
(Kay, Leslie) *see* **Remmert, Reinhold, 98g:30002**
Remmert, Reinhold ★ Classical topics in complex function theory. (English summary) **98g:30002**
Rosenberger, Gerhard *see* **Fine, Benjamin, 98h:30001**

Items with secondary classifications in 30–02

Bureau, Florent Analytic functions and their derivatives. **98f:30031**
Cherednichenko, V. G. ★ Inverse logarithmic potential problem. **98g:35211**
(Kutateladze, Semën Samsonovich) *see* **Reshetnyak, Yu. G., 98i:30034**
Reshetnyak, Yu. G. ★ Теоремы устойчивости в геометрии и анализе. (Russian. Russian summary) [Stability theorems in geometry and analysis] **98i:30034**
Simha, R. R. (*with* Srinivas, Vasudevan) Riemann surfaces. **98j:14037**
Srinivas, Vasudevan *see* **Simha, R. R., 98j:14037**

30–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 30–03

Alexander, Daniel S. An episodic history of complex dynamics from Schröder to Fatou and Julia. **98d:01027**
Bottazzini, Umberto (*with* Gray, Jeremy J.) Complex function theory from Zurich (1897) to Zurich (1932). **98d:01028**
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– General properties of Taylor series 1896–1996. (English summary) (*see* **98i:00025**)
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– Fred Gehring and Finnish mathematics. **98k:01036**
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(Ablamowicz, Rafal) *see* **Clifford algebras with numeric and symbolic computations, 98a:30003**
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Univalent functions and the Briot-Bouquet differential equations ★ Tan'yō kansū to Briot-Bouquet bibun hōteishiki. [Univalent functions and the Briot-Bouquet differential equations] **98d:30004**
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Operator Theory for Complex and Hypercomplex Analysis ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
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— ★ Studies on composition operators. **98h:47005**
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Laramie, WY ★ Studies on composition operators. **98h:47005**
Leipzig ★ Topics in interpolation theory. **98f:47001**
Mexico City ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Operator theory for complex and hypercomplex analysis ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Problems concerning complex dynamical systems ★ Fukuso rikigakkei ni kan suru sho mondai. (Japanese) [Problems concerning complex dynamical systems] **98b:58005**
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Complex Dynamical Systems and Related Areas ★ Fukuso rikigakkei to sono kanren. (Japanese) [Complex dynamical systems and related areas] **98h:58002**
Problems Concerning Complex Dynamical Systems ★ Fukuso rikigakkei ni kan suru sho mondai. (Japanese) [Problems concerning complex dynamical systems] **98b:58005**
Topics in interpolation theory ★ Topics in interpolation theory. **98f:47001**
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30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Diab, F. M. On the differential properties of complex continuous mappings. (English and Arabic summaries)
— About the analyticity conditions for complex continuous functions. (English and Arabic summaries) **98f:30002**
— On the differential properties of complex continuous functions. (English and Arabic summaries)
— On directional monogeneity sets. (English and Ukrainian summaries) **98k:30001**
Ilievski, Borko On a class of $(r+is)$-analytical functions having common general exponential characteristic function. (English summary) (*see* **98b:00030**)
Mel'nichenko, I. P. (*with* Plaksa, S. A.) Potential fields with axial symmetry and algebras of monogenic functions of a vector argument. I. (Russian. English and Ukrainian summaries) **98c:30001**
— (*with* Plaksa, S. A.) Potential fields with axial symmetry and algebras of monogenic functions of a vector argument. II. (Russian. English and Ukrainian summaries) **98k:30002**
Plaksa, S. A. *see* **Mel'nichenko, I. P.**, **98c:30001** *and* **98k:30002**
Roşculeţ, M. N. Sur la formule Cauchy-Pompeiu. (English, French and Romanian summaries) [On the Cauchy-Pompeiu formula] **98c:30002**
— Dérivées partielles aréolaires sur des algèbres commutatives. X. Équations aux dérivées volumétriques sur une algèbre à base infinie. (English, French and Romanian summaries) [Areolar partial derivatives on commutative algebras. X. Volumetric derivative equations on an algebra with infinite basis]
— Dérivées aréolaires sur des algèbres noncommutatives. Dérivées partielles aréolaires sur une algèbre Clifford C_k. (French and Romanian summaries) [Areolar derivatives on noncommutative algebras. Areolar partial derivatives on a Clifford algebra C_k]

Items with secondary classifications in 30A05

Balk, M. B. Polyanalytic functions and their generalizations [MR 93f:30050]. (*see* **98d:30002**)
(Dolzhenko, E. P.) *see* **Men'shov, D. E., 98i:01038**
Men'shov, D. E. ★ Избранные труды. Математика. (Russian. Russian summary) [Selected works. Mathematics] **98i:01038**
(Ovsepyan, R. I.) *see* **Men'shov, D. E., 98i:01038**
(Talalyan, Aleksandr Andraniki) *see* **Men'shov, D. E., 98i:01038**
(Ul'yanov, P. L.) *see* **Men'shov, D. E., 98i:01038**

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30A10 Inequalities in the complex domain

Ahmad, Nisar *see* **Aziz, Abdul[1], 98d:30005**
Aziz, Abdul[1] (*with* Rather, N. A.) L^p inequalities for polynomials. (English summary) **98g:30003**
— (*with* Ahmad, Nisar) Inequalities for the derivative of a polynomial. (English summary) **98d:30005**
Datt, B. (*with* Govil, N. K.) Some inequalities for polynomials satisfying $p(z) \equiv z^n p(1/z)$. (English summary) **98h:30002**
Gao, Ling Yun The exactness of the Mokhon'ko inequality. (Chinese. English and Chinese summaries) **98k:30003**
Govil, N. K. *see* **Datt, B., 98h:30002**
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Pritsker, I. E. *see* **Varga, Richard S., 98c:30003**
Rather, N. A. *see* **Aziz, Abdul[1], 98g:30003**
Solynin, A. Yu. Polarization and functional inequalities. (Russian. Russian summary) **98e:30001a**
— Errata: "Polarization and functional inequalities". (Russian) **98e:30001b**
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English, B. J. (*with* Rousseau, George) Bounds for certain harmonic sums. (English summary) **98j:39002**
Jain, Vinay Kumar Generalization of certain well known inequalities for polynomials. (English summary) **98f:30003**
Le, Hong Generalized Rudin-Shapiro functions and their properties. (Chinese. Chinese summary) **98c:30007**
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Rousseau, George *see* **English, B. J., 98j:39002**
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Stanoyevitch, Alexander (*with* Stegenga, David A.) Equivalence of analytic and Sobolev Poincaré inequalities for planar domains. (English summary) **98i:46020**
Stegenga, David A. *see* **Stanoyevitch, Alexander**, **98i:46020**
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30A99 None of the above, but in this section

Items with secondary classifications in 30A99

Deckelman, S. M. Failure of Privalov's theorem on flat $C^{2-\epsilon}$ curves in the unit ball of $\mathbf{C}^2$. (English summary) **98f:32007**

30Bxx Series expansions

30B10 Power series (including lacunary series)

Horwitz, Alan L. Even compositions of entire functions and related matters. (English summary) **98g:30004**
Ostrovskiĭ, Iosif Vladimirovich Les séries de puissances dont les restes ont seulement des zéros non-positifs. (English and French summaries) [Power series having tails with only real nonpositive zeroes] **98m:30002**

Items with secondary classifications in 30B10

Aleksandrov, A. B. Lacunary series and pseudocontinuations. (Russian. English and Russian summaries) **98j:30001**
Beaucoup, Franck (*with* Borwein, P. B.; Boyd, David W.; Pinner, Christopher G.) Power series with restricted coefficients and a root on a given ray. (English summary) **98k:30006**
Borwein, P. B. *see* **Beaucoup, Franck; et al., 98k:30006**
Boyd, David W. *see* **Beaucoup, Franck; et al., 98k:30006**
Fruchard, Augustin (*with* Schäfke, Reinhard) On the Borel transform. (English and French summaries) **98e:30044**
Hassenpflug, W. C. Elliptic integrals and the Schwarz-Christoffel transformation. (English summary) **98k:33042**
Ibro, Vait *see* **Jovanović, Ivan**, **(98b:00031)**
Jovanović, Ivan (*with* Ibro, Vait) The space $A^p(D)$ and multipliers. (English summary) (*see* **98b:00031**)
Kahane, Jean-Pierre General properties of Taylor series 1896–1996. (English summary) (*see* **98i:00025**)
Pinner, Christopher G. *see* **Beaucoup, Franck; et al., 98k:30006**
Roytwarf, N. (*with* Yomdin, Y.) Bernstein classes. (English and French summaries) **98h:34009a**
Schäfke, Reinhard *see* **Fruchard, Augustin**, **98e:30044**
Yomdin, Y. Oscillation of analytic curves. (English summary) **98d:32033**
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30B20 Random power series

Aulaskari, Rauno (*with* Stegenga, David A.; Zhao, Ruhan) Random power series and Q_p. **98a:30004**
Stegenga, David A. *see* **Aulaskari, Rauno; et al., 98a:30004**
Zhao, Ruhan *see* **Aulaskari, Rauno; et al., 98a:30004**

Items with secondary classifications in 30B20

Aaron, Francisc D. *see* **Mezincescu, G. Andrei; et al., 98e:60077**
Bessis, Daniel *see* **Mezincescu, G. Andrei; et al., 98e:60077**
Fournier, Jean-Daniel *see* **Mezincescu, G. Andrei; et al., 98e:60077**
Mantica, Giorgio *see* **Mezincescu, G. Andrei; et al., 98e:60077**
Massaneda, Xavier Random sequences with prescribed radii in the unit ball. (English summary) **98e:32006**
Mezincescu, G. Andrei (*with* Bessis, Daniel; Fournier, Jean-Daniel; Mantica, Giorgio; Aaron, Francisc D.) Distribution of roots of random real generalized polynomials. (English summary) **98e:60077**
Sun, Dao Chun (*with* Yu, Jiarong) Some general random Taylor series. (English summary) **98g:60099**
— Slow growing random Taylor series. (English summary) **98e:60078**
Yu, Jiarong *see* **Sun, Dao Chun**, **98g:60099**

30B30 Boundary behavior of power series, over-convergence

Aleksandrov, A. B. Gap series and pseudocontinuations. An arithmetic approach. (Russian) **98d:30006**

Items with secondary classifications in 30B30

Schneider, Ingo Schlichte Funktionen mit universellen Approximationseigenschaften. [Univalent functions with universal approximation properties] **98c:30022**

30B40 Analytic continuation

Aleksandrov, A. B. Lacunary series and pseudocontinuations. (Russian. English and Russian summaries) **98j:30001**

Carmona, Juan José (*with* Donaire, Juan Jesús) On removable singularities for the analytic Zygmund class. **98g:30005**

Donaire, Juan Jesús *see* **Carmona, Juan José, 98g:30005**

Globevnik, Josip (*with* Quinto, Eric Todd) Morera theorems via microlocal analysis. (English summary) **98c:30004**

Pavlov, A. I. On some classes of power series that cannot be analytically continued through their circle of convergence. (Russian. Russian summary) **98k:30004**

Quinto, Eric Todd *see* **Globevnik, Josip, 98c:30004**

Items with secondary classifications in 30B40

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Qian, Tao A holomorphic extension result. (English summary) **98f:42009**

Savoyant, Michel Ensembles sur lesquels les polynômes sont déterminés par leur image. (English and French summaries) [Sets on which polynomials are determined by their range] **98f:30004**

Srivastava, Hari M. *see* **Tu, Shih-Tong; et al., 98i:26013**

Sundberg, Carl Analytic continuability of Bergman inner functions. **98h:46022**

Tu, Shih-Tong (*with* Chyan, Ding-Kuo; Srivastava, Hari M.) Certain operators of fractional calculus and their applications associated with logarithmic and digamma functions. (English summary) **98i:26013**

30B50 Dirichlet series and other series expansions, exponential series [see also 11M41, 42–XX]

Alam, Md. Firuj (*with* Muklesur Rahman, Md.; Rahman, M. Matiar) On the space of entire functions represented by Dirichlet series. (English summary) **98g:30006**

Deng, Guan Tie Existence theorem for asymptotic Dirichlet series. (English and Chinese summaries)

Gaĭsin, A. M. Dirichlet series with real coefficients that rarely change sign. (Russian. Russian summary) **98b:30003**

Garif'yanov, F. N. Absolutely representing systems of elliptic functions. (Russian) **98h:30003**

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Dragilev, M. M. On spaces of generalized Dirichlet series. (English and Turkish summaries) **98a:46032**

Kahane, Jean-Pierre (*with* Queffelec, Hervé) Ordre, convergence et sommabilité de produits de séries de Dirichlet. (English summary) [Order, convergence and summability of products of Dirichlet series] **98g:11102**

Kalinichenko, L. I. *see* **Oskolkov, V. A., 98d:30041**

Oskolkov, V. A. (*with* Kalinichenko, L. I.) Growth of entire functions represented by Dirichlet series. (Russian. Russian summary) **98d:30041**

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Rastogi, Anupma On the arithmetic mean function of the real part of entire Dirichlet series. (English summary) **98e:30031**

30B60 Completeness problems, closure of a system of functions

Azarin, Vladimir (*with* Giner, V. B.) Limit sets of entire functions and the completeness of systems of exponentials. (Russian. English, Russian and Ukrainian summaries) **98i:30001**

Dostanić, Milutin R. A basis property of families of the Mittag-Leffler functions. (English summary) **98c:30005**

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30B70 Continued fractions [see also 11A55, 40A15]

Roberts, D. E. Vector continued fraction algorithms. (*see* **98a:30003**)

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Arnold, C. Formal continued fractions solutions of the generalized second order Riccati equations, applications. (English summary) **98c:65141**

Barrlund, A. (*with* Wallin, Hans; Karlsson, Johan) Iteration of Möbius transformations and attractors on the real line. (English summary) **98d:30037**

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Doherty, Patrick (*with* Łukaszewicz, Witold; Szałas, Andrzej) A reduction result for circumscribed semi-Horn formulas. (English summary) **98b:68179**

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30B99 None of the above, but in this section

Menous, Frédéric The well-behaved Catalan and Brownian averages and their applications to real resummation. (English summary) **98g:30007**

30Cxx Geometric function theory

Carathéodory, C. ★ Conformal representation. (English summary)

30C10 Polynomials

Ahmad, Nisar *see* **Aziz, Abdul[1], 98d:30008**

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— (*with* Ahmad, Nisar) Integral mean estimates for polynomials whose zeros are within a circle. (English summary) **98d:30008**

— (*with* Zargar, B. A.) On self-reciprocal polynomials. (English summary) **98b:30004**

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Brown, Johnny E. A proof of the Sendov conjecture for polynomials of degree seven. (English summary) **98m:30003**

Germano, Bruna (*with* Ricci, Paolo Emilio) On the connection between a class of Faber polynomials and multivariable Chebyshev polynomials. (English summary) **98k:30005**

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Zargar, B. A. *see* **Aziz, Abdul[1], 98b:30004** *and* **98c:30006**

Items with secondary classifications in 30C10

Ahmad, Nisar *see* **Aziz, Abdul[1], 98d:30005**

Aziz, Abdul[1] (*with* Rather, N. A.) L^p inequalities for polynomials. (English summary) **98g:30003**

— (*with* Ahmad, Nisar) Inequalities for the derivative of a polynomial. (English summary) **98d:30005**

Bultheel, Adhemar (*with* González-Vera, P.; Hendriksen, E.; Njåstad, Olav) A Favard theorem for rational functions with poles on the unit circle. (English summary) **98c:42022**

Datt, B. (*with* Govil, N. K.) Some inequalities for polynomials satisfying $p(z) \equiv z^n p(1/z)$. (English summary) **98h:30002**

Dumett, Miguel A. Hadamard products of series of classical orthogonal polynomials. (Spanish. English and Spanish summaries) **98m:33018**

Fujimoto, Yoshihisa The Fibonacci partition on the connectedness locus. (English summary) (*see* **98f:58004**)

González-Vera, P. *see* **Bultheel, Adhemar; et al., 98c:42022**

Govil, N. K. *see* **Datt, B., 98h:30002**

Hendriksen, E. *see* **Bultheel, Adhemar; et al., 98c:42022**

Lyubich, Mikhail Dynamics of quadratic polynomials. I, II. **98e:58145**

Njåstad, Olav *see* **Bultheel, Adhemar; et al., 98c:42022**

Pritsker, I. E. *see* **Varga, Richard S., 98c:30003**

Qazi, M. A. (*with* Rahman, Qazi I.) The fundamental theorem of linear programming applied to certain extremal problems for polynomials. (English summary) **98j:41032**

Rahman, Qazi I. *see* **Qazi, M. A., 98j:41032**

Rather, N. A. *see* **Aziz, Abdul[1], 98g:30003**

Ronkin, A. L. On quasipolynomials. (Russian) (*see* **98d:00009**)

Ruscheweyh, Stephan (*with* Salinas Carrasco, Luis) On an arc-length problem for polynomials on the Cauchy circle. **98h:30008**

Salinas Carrasco, Luis *see* **Ruscheweyh, Stephan, 98h:30008**

Varga, Richard S. (*with* Pritsker, I. E.) On a counterexample in the theory of polynomials having concentration at low degrees. (English summary) **98c:30003**

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

Abian, Alexander *see* **Kemp, Paula A.**

Akhiezer, N. I. On a minimum problem in function theory and the number of roots of an algebraic equation inside the unit disc [Izv. Akad. Nauk SSSR Mat. Estestv. Nauk No. 9 (1930), 1169–1189]. (English summary) (*see* **98f:47001**)

Beaucoup, Franck (*with* Borwein, P. B.; Boyd, David W.; Pinner, Christopher G.) Power series with restricted coefficients and a root on a given ray. (English summary) **98k:30006**

Borwein, P. B. (*with* Erdélyi, Tamás) On the zeros of polynomials with restricted coefficients. **98g:30008**

— *see also* **Beaucoup, Franck; et al., 98k:30006**

Boyd, David W. *see* **Beaucoup, Franck; et al., 98k:30006**

de Bruin, Marcel G. (*with* Ivanov, K. G.; Sharma, Ambikeshwar) A conjecture of Schoenberg.

Byrne, Angelina Results pertaining to the Sendov conjecture. (English summary) **98h:30004**

Çelik, Adem A note on Mohr's paper. (English summary) **98f:30005**

Dimitrov, Dimitar K. A refinement of the Gauss-Lucas theorem. (English summary) **98h:30005**

Dimova, E. A. On the distribution of the zeros of the composition of the kind $\Phi(z) = \sum_{k=0}^{m} \binom{n-k}{m-k} f_1^{(m-k)}(z) f_2^{(k)}(z)$. (English summary)

Erdélyi, Tamás *see* **Borwein, P. B., 98g:30008**

Genin, Yves V. Euclid algorithm, orthogonal polynomials, and generalized Routh-Hurwitz algorithm. (English summary) **98m:30004**

He, Matthew X. On the zeros of weighted Faber polynomials. (English summary) **98a:30005**

Ince, H. O. *see* **Ogras, S., 98h:30007**

Inoue, Tetsuo Zeros distribution of normalized counting measure.

Ivanov, K. G. (*with* Sharma, Ambikeshwar) Quadratic mean radius of a polynomial in $\mathbf{C}(Z)$. (English summary) **98k:30007**

— *see also* **de Bruin, Marcel G.; et al.**

Jain, Vinay Kumar On Cauchy's type bounds for zeros of a polynomial. (English summary) **98b:30005**

— On Cauchy's bound for zeros of a polynomial. (English summary) **98e:30003**

— Inequalities for polynomials satisfying $p(z) \equiv z^n p(1/z)$. III. (English summary) **98h:30006**

— On the zeros of a class of polynomials and related analytic functions. (English summary) **98d:30009**

Kappert, M. On the zeros of the partial sums of $\cos(z)$ and $\sin(z)$. (English summary) **98e:30004**

Kemp, Paula A. (*with* Abian, Alexander) A theorem equivalent to Picard's Little theorem and a derivation of the fundamental theorem of algebra. (English summary)

Lin, Xing Duan Distortion of harmonic convex mappings. (Chinese. English and Chinese summaries) **98d:30010**

Naulin, Raúl *see* **Pabst, Carlos, 98b:30006**

Ogras, S. (*with* Ince, H. O.) On the distribution of zeros of the equation of state. (English summary) **98h:30007**

Pabst, Carlos (*with* Naulin, Raúl) Differential equations associated to algebraic functions and their solutions. (English summary) **98b:30006**

Peretz, Ronen (*with* Schmid, Joachim) On the zero sets of certain complex polynomials. **98i:30002**

Pinner, Christopher G. *see* **Beaucoup, Franck; et al., 98k:30006**

Ruscheweyh, Stephan (*with* Salinas Carrasco, Luis) On an arc-length problem for polynomials on the Cauchy circle. **98h:30008**

Salinas Carrasco, Luis *see* **Ruscheweyh, Stephan, 98h:30008**

Sarason, Donald (*with* Suárez, Daniel) Inverse problem for zeros of certain Koebe-related functions. (English summary) **98g:30009**

Schmid, Joachim *see* **Peretz, Ronen, 98i:30002**

Sharma, Ambikeshwar *see* **Ivanov, K. G., 98k:30007** *and* **de Bruin, Marcel G.; et al.**

Storozhenko, È. A. Some inequalities for polynomials in L_0 norm. (English summary) (*see* **98k:00021**)

Suárez, Daniel *see* **Sarason, Donald, 98g:30009**

Vaggione, Diego Errata to: "On the fundamental theorem of algebra" [Colloq. Math. **73** (1997), no. 2, 193–194; MR 97m:30003].

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Yamagishi, Yoshikazu Stable spiral orbits of SOR Durand-Kerner's method applied to the equation $x^d = 0$. (English summary) **98m:30005**

Zhang, Zhan Liang Zeros of polynomial functions of meromorphic functions and their derivatives. (Chinese. English and Chinese summaries)

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Amoroso, Francesco (*with* Mignotte, Maurice) On the distribution of the roots of polynomials. (English and French summaries) **98h:11101**

Andreev, Andrei St. *see* **Atanassova, Lidiya Y.; et al., 98d:65026**

Andrievskiĭ, Vladimir (*with* Blatt, Hans-Peter) A discrepancy theorem on quasiconformal curves. (English summary) **98d:30007**

Atanassova, Lidiya Y. (*with* Andreev, Andrei St.; Kyurkchiev, Nikolai V.) Combined iterative methods based on a modification of the Koenig theorem. (English summary) **98d:65026**

Aziz, Abdul[1] (*with* Zargar, B. A.) Some extensions of Eneström-Kakeya theorem. (English summary) **98c:30006**

Bazán, Fermín S. V. (*with* Bezerra, Licio H.) On zero locations of predictor polynomials. (English summary) **98m:65048**

Bezerra, Licio H. *see* **Bazán, Fermín S. V., 98m:65048**

Blatt, Hans-Peter *see* **Andrievskiĭ, Vladimir, 98d:30007**

Brezinski, Claude (*with* Redivo-Zaglia, M.) On the zeros of various kinds of orthogonal polynomials. (English summary) **98b:42039**

Brown, Johnny E. A proof of the Sendov conjecture for polynomials of degree seven. (English summary) **98m:30003**

Craven, Thomas (*with* Csordas, George) Complex zero decreasing sequences. (English summary) **98a:26015**

Csordas, George *see* **Craven, Thomas, 98a:26015**

Germano, Bruna (*with* Ricci, Paolo Emilio) On the connection between a class of Faber polynomials and multivariable Chebyshev polynomials. (English summary) **98k:30005**

He, Matthew X. (*with* Simon, David S.; Ricci, Paolo Emilio) Dynamics of the zeros of Fibonacci polynomials. **98e:11018**

Herceg, Djordje *see* **Petković, Miodrag S., (98h:00033)**

Kim, Hye Kyung (*with* Park, Young Kou) On estimation of root bounds of polynomials. (English summary) **98m:65083**

Kozen, Dexter (*with* Stefánsson, Kjartan) Computing the Newtonian graph. (English summary) **98m:05185**

Kyurkchiev, Nikolai V. *see* **Atanassova, Lidiya Y.; et al., 98d:65026**

Lu, Jian Ke On homogeneous Riemann boundary value problems of higher degree. (English summary) **98g:30069**

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Moussa, Ousmane An inequality about the largest roots of a polynomial. (English summary) **98g:12002**

Neff, C. Andrew (*with* Reif, John H.) An efficient algorithm for the complex roots problem. (English summary) **98b:68092**

Park, Young Kou *see* **Kim, Hye Kyung, 98m:65083**

Petković, Miodrag S. (*with* Herceg, Djordje) On the localization of polynomial zeros. (English summary) (*see* **98h:00033**)

Pritsker, I. E. *see* **Varga, Richard S., 98c:30003**

Redivo-Zaglia, M. *see* **Brezinski, Claude, 98b:42039**

Reif, John H. *see* **Neff, C. Andrew, 98b:68092**

Ricci, Paolo Emilio *see* **He, Matthew X.; et al., 98e:11018** *and* **Germano, Bruna, 98k:30005**

Sarmant-Durix, Marie-Claude Racines p-ièmes analytiques de certaines fractions rationnelles. [Analytic pth roots of certain rational fractions] **98c:12012**

Simon, David S. *see* **He, Matthew X.; et al., 98e:11018**

Stefánsson, Kjartan *see* **Kozen, Dexter, 98m:05185**

Varga, Richard S. (*with* Pritsker, I. E.) On a counterexample in the theory of polynomials having concentration at low degrees. (English summary) **98c:30003**

Wang, Shupei On the frequency of zeros of a fundamental solution set of complex linear differential equations. (English summary) **98i:34007**

Zargar, B. A. *see* **Aziz, Abdul[1], 98c:30006**

30C20 Conformal mappings of special domains

Aksent'ev, L. A. *see* **Avkhadiev, F. G.; et al., 98i:30003**

Avkhadiev, F. G. (*with* Aksent'ev, L. A.; Bil'chenko, G. G.) Classes of univalent and multivalent Christoffel-Schwarz integrals and their applications. (Russian) **98i:30003**

Bereslavskiĭ, È. N. On differential equations of the Fuchs class associated with the conformal mapping of circular polygons in polar grids. (Russian. Russian summary) **98m:30006**

Bil'chenko, G. G. *see* **Avkhadiev, F. G.; et al., 98i:30003**

Carroll, Tom (*with* Twomey, J. B.) Conformal mappings of close-to-convex domains. **98f:30006**

Craster, R. V. Conformal mappings involving curvilinear quadrangles. (English summary) **98f:30007**

Dorff, Michael J. (*with* Suffridge, T. J.) The inner mapping radius of harmonic mappings of the unit disk. (English summary) **98m:30007**

He, Cheng Qi *see* **Jiang, Tian Quan, 98b:30007**

Jiang, Tian Quan (*with* He, Cheng Qi) Representation theorems for discrete groups generated by a class of punctured domains. (Chinese. English and Chinese summaries) **98b:30007**

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Kamali, Muhammet (*with* Kadıoğlu, Ekrem) A characterization on the conformal mapping. (English summary) **98c:30008**

Kim, Kiwon Circular distortion and the double disk property of curves. **98i:30004**

Lu, Jian Ke Standardization of periodic multiconnected regions. (Chinese. English and Chinese summaries) **98d:30011**

Maitani, Fumio (*with* Minda, David) Rectilinear slit conformal mappings. **98c:30009**

Minda, David *see* **Maitani, Fumio, 98c:30009**

Sorokin, A. S. Structural formulas for some classes of analytic functions in a finitely connected domain. (Russian. Russian summary) **98k:30008**

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Wilczek, Katarzyna Harmonic cross-ratio of some quadrilaterals. (English summary) **98k:30009**

Zeng, Fan Fu Conformal automorphisms of the disk and their fixed points. (Chinese. English and Chinese summaries) **98c:30010**

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Ahern, Patrick (*with* Rudin, Walter) Geometric properties of the gamma function. **98i:33003**

Bereslavskiĭ, È. N. (*with* Polubarinova-Kochina, Pelageya Yakovlevna) Differential equations of the Fuchs class encountered in some problems of mechanics of liquids and gases. (Russian. Russian summary) **98m:34008**

Colin de Verdière, Yves (*with* Mathéus, Frédéric) Empilements de cercles et approximations conformes. (English and French summaries) [Circle packings and conformal approximations] **98d:52026**

Dolzhenko, E. P. Remarks on the modulus of continuity of a conformal mapping of a disk onto a Jordan domain. (Russian. Russian summary) **98a:41044**

Gentosh, O. E. (*with* Gol′dberg, Anatoliĭ Asirovich; Moravetskaya, O. N.) Geometric criteria for the existence of strip and angular derivatives for some classes of conformal mappings. (Russian. English, Russian and Ukrainian summaries) **98j:30004**
Gol′dberg, Anatoliĭ Asirovich *see* **Gentosh, O. E.; et al., 98j:30004**
Greene, Robert E. (*with* Krantz, Steven G.) ★ Function theory of one complex variable. (English summary) **98d:30001**
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Molinari, Luca On the ground state of regular polygonal billiards. (English summary) **98k:81063**
Moravetskaya, O. N. *see* **Gentosh, O. E.; et al., 98j:30004**
Peterson, Mark A. Singular Laplacian growth. (English summary) **98m:82054**
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Vandembroucq, Damien (*with* Roux, Stéphane) Conformal mapping on rough boundaries. I. Applications to harmonic problems. (English summary) **98d:76138a**
— (*with* Roux, Stéphane) Conformal mapping on rough boundaries. II. Applications to biharmonic problems. (English summary) **98d:76138b**
Volkov-Bogorodsky, D. B. On integration of Fuchs-class equations with four singular points in connection with a conformal mapping problem. (*see* **98i:00021**)
Walden, Byron L. (*with* Ward, Lesley A.) Distributions of harmonic measure for planar domains. (English summary) **98f:30026**
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Yang, Shanshuang On dilatations and substantial boundary points of homeomorphisms of Jordan curves. (English summary) **98a:30025**

30C25 Covering theorems in conformal mapping theory

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Graham, Ian On the Bloch constant for convex maps of the unit ball in $\mathbf{C}^n$. **98e:32040**
Kuz′mina, G. V. Methods of the geometric theory of functions. I. (Russian. Russian summary) **98h:30041**

30C30 Numerical methods in conformal mapping theory [see also 65E05]

Abdullaev, F. G. Uniform convergence of the generalized Bieberbach polynomials in regions with non-zero angles. **98m:30008**
Chan, Raymond H. (*with* DeLillo, Thomas K.; Horn, Mark A.) The numerical solution of the biharmonic equation by conformal mapping. (English summary) **98i:30005**
DeLillo, Thomas K. (*with* Elcrat, Alan R.; Pfaltzgraff, John A.) Numerical conformal mapping methods based on Faber series. (English summary) **98j:30003**
— *see also* **Chan, Raymond H.; et al., 98i:30005**
Elcrat, Alan R. *see* **DeLillo, Thomas K.; et al., 98j:30003**
Horn, Mark A. *see* **Chan, Raymond H.; et al., 98i:30005**
Inoue, Tetsuo New charge simulation method for numerical conformal mapping of ring domains. (English summary) **98b:30008**
Klonowska, Maria E. (*with* Prosnak, Włodzimierz J.) On an effective method for conformal mapping of multiply connected domains. (English summary) **98a:30006**
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Nashed, M. Zuhair *see* **Razali, M. R. M.; et al., 98i:30006**
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Prosnak, Włodzimierz J. *see* **Klonowska, Maria E., 98a:30006**
Razali, M. R. M. (*with* Nashed, M. Zuhair; Murid, A. H. M.) Numerical conformal mapping via the Bergman kernel. (English summary) **98i:30006**

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Marshall, Donald E. (*with* Sundberg, Carl) Harmonic measure of curves in the disk. (English summary) **98d:30036**
Papamichael, N. (*with* Pritsker, I. E.; Saff, E. B.; Stylianopoulos, N. S.) Approximation of conformal mappings of annular regions. (English summary) **98e:65016**
Pritsker, I. E. *see* **Papamichael, N.; et al., 98e:65016**
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30C35 General theory of conformal mappings

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Belyi, Vladimir I. Modern methods of the geometric theory of functions of a complex variable in approximation problems. (Russian. Russian summary) **98h:30009**
Brodovich, M. T. On mappings of a three-dimensional domain that preserve angles and expansion along a system of rays. (Russian. Russian summary) **98b:30009**
Carmona, Juan José (*with* Pommerenke, Christian) Twisting behaviour of conformal maps. (English summary) **98h:30010**
Chuaqui, M. (*with* Osgood, Brad) General univalence criteria in the disk: extensions and extremal function. (English summary) **98m:30009**
Demin, S. E. Isoperimetric distortion problem for univalent Montel functions. (Russian. Russian summary) **98b:30010**
Fernández-Pérez, José L. (*with* Granados, A.) On geodesic curvature and conformal mapping. **98k:30010**
Gentosh, O. E. (*with* Gol′dberg, Anatoliĭ Asirovich; Moravetskaya, O. N.) Geometric criteria for the existence of strip and angular derivatives for some classes of conformal mappings. (Russian. English, Russian and Ukrainian summaries) **98j:30004**
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Granados, A. *see* **Fernández-Pérez, José L., 98k:30010**
Kadıoğlu, Ekrem (*with* Bayraktar, Mustafa) On the subrings of the ring of analytic functions and conformally equivalence. (English summary) **98k:30011**
Kopylov, Anatoliĭ Pavlovich On the stability of classes of conformal mappings. II. (Russian. Russian summary) **98h:30011**
Krushkal, Samuel L. Quasireflections with respect to analytic curves. (English summary) **98m:30010**
Kühnau, Reiner Längentreue Randverzerrung bei analytischer Abbildung in hyperbolischer und Sphärischer Metrik. [Equidistant boundary distortion in analytic mappings in hyperbolic and spherical metrics] **98g:30011**
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Rhodes, A. D. An upper bound for the hyperbolic metric of a convex domain. **98e:30005**

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Bishop, Christopher J. (*with* Jones, Peter Wilcox) The law of the iterated logarithm for Kleinian groups. (English summary) **98j:30051**
Cristea, Mihai A generalization of the theorem on univalence on boundary. **98k:46071**
Dolzhenko, E. P. Remarks on the modulus of continuity of a conformal mapping of a disk onto a Jordan domain. (Russian. Russian summary) **98a:41044**
de Faria, Edson On conformal distortion and Sullivan's sector theorem. (English summary) **98i:58196**
Goryainov, V. V. Evolution families of analytic functions and time-inhomogeneous Markov branching processes. (Russian) **98a:60120**
Jones, Peter Wilcox *see* **Bishop, Christopher J., 98j:30051**
Krushkal, Samuel L. On Grunsky conditions, Fredholm eigenvalues and asymptotically conformal curves. (English summary) **98e:30021**
Maitani, Fumio (*with* Minda, David) Rectilinear slit conformal mappings. **98c:30009**
Minda, David *see* **Maitani, Fumio, 98c:30009**
Snygg, John ★ Clifford algebra. **98f:81111**
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Ullrich, Peter The Riemann mapping problem. **98b:01024**

30C40 Kernel functions and applications

Bañuelos, Rodrigo (*with* Lindeman, Arthur, II) A martingale study of the Beurling-Ahlfors transform in $\mathbf{R}^n$. (English summary) **98a:30007**
Chung, Young-Bok The Szegö kernel function of a multiply connected domain. (English summary) **98d:30013**
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Nashed, M. Zuhair *see* **Razali, M. R. M.; et al., 98i:30006**
Razali, M. R. M. (*with* Nashed, M. Zuhair; Murid, A. H. M.) Numerical conformal mapping via the Bergman kernel. (English summary) **98i:30006**
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Zhu, Kehe A class of operators associated with reproducing kernels. (English summary) **98f:47036**

30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)

Abdullah, Aishah S. (*with* Ali, Rosihan M.; Singh, Vikramaditya[1]) On functions starlike with respect to a boundary point. (English summary) **98g:30012**
Acharya, Milu *see* **Patel, Jagannath, 98d:30022**
Agranovskiĭ, M. L. (*with* Bandman, T. M.) Remarks on a conjecture of Ruscheweyh. (English summary) **98g:30013**
Ahuja, O. P. (*with* Jahangiri, Massoud) Fekete-Szego problem for a unified class of analytic functions. (English summary) **98c:30011**
— (*with* Jahangiri, Massoud) Convolution duality applied to a class of analytic functions. (English summary) **98d:30014**
— (*with* Jahangiri, Massoud) On the derivatives of a family of analytic functions. (English summary) **98k:30012**
Al-Amiri, Hassoon (*with* Mocanu, Petru T.) Integral operators preserving meromorphic starlike functions. **98m:30011**
Al-Bany, Sumayya A. *see* **Noor, Khalida Inayat**
Ali, Rosihan M. *see* **Abdullah, Aishah S.; et al., 98g:30012**
Al-Kharsani, H. A. On certain integral operators defined on some classes of univalent functions. (English summary) **98k:30013**
— On a certain class of univalent functions with negative coefficients. (English summary) **98m:30012**

Anisiu, Valeriu (*with* Mocanu, Petru T.; Şerb, Ioan) A sharp criterion for starlikeness. (English summary) **98g:30014**
— (*with* Mocanu, Petru T.; Şerb, Ioan) A sharp sufficient condition for a subclass of starlike functions. (English summary) **98d:30015**
Aouf, M. K. (*with* Darwish, H. E.) On p-valent functions with negative and missing coefficients. II. (English summary) **98a:30008**
— (*with* Hossen, H. M.) On subclasses of meromorphic p-valent close-to-convex functions.
— (*with* Darwish, H. E.) A property of certain analytic functions involving Ruscheweyh derivatives. II. (English summary)
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Varga, Csaba *see* **Curt, Paula, 98a:30009**
Vujović, Svetlana (*with* Jovanović, Ivan; Obradović, Milutin) On certain univalence conditions in the unit disc. (English summary)
Wang, Hai Yan[1] *see* **Xie, Shu Cui, 98c:30018**
Wiśniowska, Agnieszka Majorization of derivatives in certain subclasses of starlike functions. (English summary) **98h:30028**
— Neighbourhoods of convex functions related with parabola. **98e:30019**
— *see also* **Stankiewicz, Jan, 98g:30035**
Wu, Xiu Hua *see* **Jiang, Yan Wei; et al.**
Xiao, Jie[1] Some properties and characterizations of a-normal functions. (English summary) **98d:30023**
Xie, Shu Cui (*with* Wang, Hai Yan[1]) Properties of some subclasses of univalent functions. (Chinese. English and Chinese summaries) **98c:30018**
Yang, Ding Gong Some properties of certain analytic functions. (English summary) **98a:30019**
— On a criterion for multivalently starlikeness. (English summary) **98e:30020**
— The Fekete-Szegö problem for Bazilevič functions of type α and order β. (Chinese. English and Chinese summaries) **98k:30023**
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Zhang, Qi Meromorphic quasiconvex functions and the problems of their growth, distortion, and coefficients. (Chinese. English and Chinese summaries) **98d:30024**
— Coefficients of some classes of starlike and convex functions of order p. (Chinese. English and Chinese summaries)
Zhao, Ye Xi A family of analytic functions linearly homeomorphic to starlike functions. (Chinese. English and Chinese summaries) **98i:30019**
Zhu, Yu Can Some classes of analytic functions defined by Ruscheweyh derivatives. (Chinese. English and Chinese summaries) **98i:30020**
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Aouf, M. K. (*with* Srivastava, Hari M.) A certain subclass of convex functions with negative coefficients. (English summary) **98b:26004**
Bulboacă, Teodor Integral operators that preserve the subordination. (English summary) **98k:30029**
Choi, Jae Ho (*with* Kim, Yong Chan; Srivastava, Hari M.) Convex and starlike generalized hypergeometric functions associated with the Hardy space. (English summary) **98i:33008**
Cima, Joseph A. Some open questions concerning Gelfer functions and Cauchy transforms. **98g:30065**
Drăghici, Eugen About an integral operator preserving meromorphic starlike functions. (English summary) **98f:30023**
Godula, Janusz (*with* Starkov, Viktor V.) Linearly invariant families of holomorphic functions in the unit polydisc. (English summary) **98j:32001**
Gong, Guifu *see* **Zhang, Shunyan, 98b:30033**
Jahangiri, Massoud A new criterion for close-to-convexity of partial sums of certain hypergeometric functions. (English summary) **98m:33013**
Kim, Seong-A On convex hyperbolic regions. **98h:30062**
Kim, Yong Chan *see* **Choi, Jae Ho; et al., 98i:33008**
Kohr, Gabriela (*with* Liczberski, Piotr) A starlikeness criterion for holomorphic mappings in the polydisc. **98m:32037**
— On certain conditions of starlikeness of order α in $\mathbf{C}^n$. (English summary) **98j:32021**
— Certain sufficient conditions of almost starlikeness of order $1/2$ on the unit ball in $\mathbf{C}^n$. (English summary) **98k:32032**
— On some conditions of spirallikeness in $\mathbf{C}^n$. (English summary) **98e:32048**
— (*with* Liczberski, Piotr) On some partial differential inequalities for mappings of $\mathscr{C}^1$ class in $\mathbf{C}^n$. (English summary) **98i:32046**
Liczberski, Piotr Some criteria for Φ-likeness and close-to-starlikeness in $\mathbf{C}^n$. (English summary) **98k:32033**
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Liu, Taishun (*with* Zhang, Wen Jun) Homogeneous expansions of normalized biholomorphic convex mappings over B^p. (English summary) **98j:32022**
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Starkov, Viktor V. *see* **Godula, Janusz, 98j:32001**
Suffridge, T. J. Harmonic univalent polynomials. (English summary) **98m:30027**
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Zhang, Wen Jun *see* **Liu, Taishun, 98j:32022**

30C50 Coefficient problems for univalent and multivalent functions

Barnard, Roger W. (*with* Pearce, Kent; Wheeler, William Anthony) On a coefficient conjecture of Brannan. (English summary) **98m:30021**
Grinshpan, A. Z. (*with* Pommerenke, Christian) The Grunsky norm and some coefficient estimates for bounded functions. (English summary) **98k:30024**
— (*with* Pommerenke, Christian) The Grunsky operator and coefficient differences. (English summary) **98m:30022**
Kayumov, I. R. (*with* Starkov, Viktor V.) Estimates for logarithmic coefficients of locally univalent functions. **98a:30020**
Livingston, Albert E. Goodman's conjectures on the coefficients of multivalent functions. (English summary) **98m:30023**
Makarov, Nikolai G. (*with* Pommerenke, Christian) On coefficients, boundary size and Hölder domains. (English summary) **98i:30021**
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Todorov, Pavel G. A simple hand verification of the Bieberbach conjecture for $2 \le n \le 7$. (English summary)
— Two simple explicit forms of the Taylor expansion of the bounded Koebe function. (English summary)
Waadeland, Haakon Some thoughts on the theory of univalent functions. (English summary) **98m:30024**
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Xie, Ming-Qin A generalization of the de Branges theorem. (English summary) **98b:30018**

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— (*with* Jahangiri, Massoud) On the derivatives of a family of analytic functions. (English summary) **98k:30012**
Al-Kharsani, H. A. On certain integral operators defined on some classes of univalent functions. (English summary) **98k:30013**
Anisiu, Valeriu (*with* Mocanu, Petru T.; Şerb, Ioan) A sharp sufficient condition for a subclass of starlike functions. (English summary) **98d:30015**
Aouf, M. K. (*with* Nunokawa, Mamoru) On subclasses of meromorphic univalent functions with positive and fixed finitely many coefficients. (English summary) **98e:30006**
— (*with* Nunokawa, Mamoru) On subclasses of meromorphic univalent functions with positive and fixed second coefficients. (English summary) **98e:30007**
— (*with* Darwish, H. E.) Certain meromorphically starlike functions with positive and fixed second coefficients. (English and Turkish summaries) **98j:30006**
— *see also* **Owa, Shigeyoshi; et al., 98h:30023**
Avci, Yusuf (*with* Złotkiewicz, Eligiusz) On univalent functions with three preassigned values. (English and Turkish summaries) **98j:30007**
Betancor, Jorge J. (*with* Rodriguez-Mesa, Lourdes; Srivastava, Hari M.) New classes of univalent analytic functions with negative coefficients. (English summary) **98f:30009**
Darwish, H. E. *see* **Owa, Shigeyoshi; et al., 98h:30023** *and* **Aouf, M. K., 98j:30006**
Haliloglu, Engin Generalizations of coefficient estimates for certain classes of analytic functions. (English summary) **98i:30008**
Jahangiri, Massoud *see* **Ahuja, O. P., 98e:30011** *and* **98k:30012**
Komatu, Yûsaku ★ Distortion theorems in relation to linear integral operators. (English summary) **98a:30011**
Lin, Xing Duan Distortion of harmonic convex mappings. (Chinese. English and Chinese summaries) **98d:30010**
Macura, Janina (*with* Śladkowska, Janina) Univalent functions connected with homographies and antigraphies. (English summary) **98i:30012**
Mocanu, Petru T. *see* **Anisiu, Valeriu; et al., 98d:30015**
Nunokawa, Mamoru *see* **Aouf, M. K., 98e:30006** *and* **98e:30007**
Owa, Shigeyoshi (*with* Darwish, H. E.; Aouf, M. K.) Meromorphic multivalent functions with positive and fixed second coefficients. (English summary) **98h:30023**
Raina, R. K. On univalent and starlike Wright's hypergeometric functions. (English summary) **98b:30017**
Rodriguez-Mesa, Lourdes *see* **Betancor, Jorge J.; et al., 98f:30009**
Şerb, Ioan *see* **Anisiu, Valeriu; et al., 98d:30015**
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30C55 General theory of univalent and multivalent functions

Aouf, M. K. (*with* Salagean, Grigore Stefan) On certain class of p-valent functions with two fixed points.
Bavrin, I. I. Univalent functions with weight. (Russian) **98a:30021**
Chen, Hong Bin A univalence criterion and quasiconformal extensions. (Chinese. English and Chinese summaries) **98i:30023**
Cho, Nak Eun *see* **Owa, Shigeyoshi; et al., 98i:30026**
Dong, Xinhan (*with* He, Yu Zan) BMOA and multivalent functions. (English summary) **98d:30025**
Greiner, Richard On a theorem of Andrievskii and Ruscheweyh. **98m:30025**
He, Yu Zan *see* **Dong, Xinhan, 98d:30025**
Jiang, Tian Quan Riemann mapping functions and corresponding discrete groups on doubly connected regions. (Chinese. English and Chinese summaries) **98f:30018**
Kim, Yong Chan (*with* Owa, Shigeyoshi; Sekine, Tadayuki) A certain class of multivalent functions associated with the Hardy space. (English summary) **98g:30037**
Kohr, Gabriela *see* **Kohr-Ile, Mirela**
Kohr-Ile, Mirela (*with* Kohr, Gabriela) Some sufficient conditions of univalency for complex functions in the class C^1.
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Miller-van Wieren, Leila Univalence criteria for classes of rectangles and equiangular hexagons. (English summary) **98i:30024**
Moldoveanu, Silvia (*with* Pascu, Nicolae N.; Petrila, Titus) A new generalization of the univalence criteria of Becker and of Nehari.
Nowak, Maria Integral means of univalent harmonic maps. (English summary) **98f:30019**

Ovesea, Horiana On the univalence of a certain integral.
— An univalence criterion and the Schwarzian derivative. (English summary) **98i:30025**
Owa, Shigeyoshi (*with* Kwon, Oh Sang; Cho, Nak Eun) Some inequalities involving meromorphically multivalent functions. (English summary) **98i:30026**
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Öztürk, Metin (*with* Yamankaradeniz, Mümin) Univalent harmonic mappings. (English summary) **98j:30013**
Pascu, Nicolae N. Loewner chains and univalence criteria.
— (*with* Răducanu, Dorina) On a class of univalent functions.
— *see also* **Moldoveanu, Silvia; et al.**
Pescar, Virgil On a univalence criterion.
— A new generalization of Ahlfors's and Becker's criterion of univalence. (English summary)
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Radomir, Irinei A generalization of Nehari's univalence criteria. (French summary)
— A univalence criterion for a class of integral operators.
Răducanu, Dorina On a univalence criterion.
— Some sufficient conditions for univalence in the upper half-plane. (Romanian summary)
— *see also* **Pascu, Nicolae N.**
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Sarangi, S. M. (*with* Uralegaddi, Suguna B.) Certain differential operators for meromorphic functions. (English summary) **98c:30021**
Schneider, Ingo Schlichte Funktionen mit universellen Approximationseigenschaften. [Univalent functions with universal approximation properties] **98c:30022**
Sekine, Tadayuki *see* **Kim, Yong Chan; et al., 98g:30037**
Sheremeta, Myroslav M. On power series with Gel'fond-Leont'ev derivatives that satisfy a special condition. (Russian. English, Russian and Ukrainian summaries) **98m:30026**
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Villamor, Enrique (*with* Xiao, Feng[2]) On the Brennan conjecture. (English summary) **98m:30028**
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Avkhadiev, F. G. (*with* Aksent'ev, L. A.; Bil'chenko, G. G.) Classes of univalent and multivalent Christoffel-Schwarz integrals and their applications. (Russian) **98i:30003**
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Betancor, Jorge J. (*with* Rodríguez-Mesa, Lourdes; Srivastava, Hari M.) New classes of univalent analytic functions with negative coefficients. (English summary) **98f:30009**
Bil'chenko, G. G. *see* **Avkhadiev, F. G.; et al., 98i:30003**
Ding, Shusen *see* **Ling, Yi, 98a:30013**
Dorff, Michael J. Some harmonic n-slit mappings. (English summary) **98d:30017**
Grinshpan, A. Z. (*with* Pommerenke, Christian) The Grunsky operator and coefficient differences. (English summary) **98m:30022**
Joshi, Santosh B. *see* **Kulkarni, Shripad Rajaram, 98j:30009**
Kulkarni, Shripad Rajaram (*with* Joshi, Santosh B.) On a class of q-valent functions. (English summary) **98j:30009**
Ling, Yi (*with* Ding, Shusen) On radii of starlikeness and convexity for convolutions of starlike functions. (English summary) **98a:30013**
Menke, Klaus Symmetrical univalent functions in an annulus. (English summary) **98c:30019**
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Roytwarf, N. (*with* Yomdin, Y.) Bernstein classes. (English and French summaries) **98h:34009a**
Srivastava, Hari M. *see* **Betancor, Jorge J.; et al., 98f:30009**
Waadeland, Haakon Some thoughts on the theory of univalent functions. (English summary) **98m:30024**
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Zemyan, Stephen M. On the extremal curvature and torsion of stereographically projected analytic curves. (English summary) **98f:53003**

30C62 Quasiconformal mappings in the plane

Anderson, Glen D. (*with* Qiu, Songliang; Vamanamurthy, Mavina K.) Inequalities for distortion functions and plane quasiconformal mappings. (English summary) **98g:30038**
Chu, Yu Ming (*with* Zhou, Hai Yin) Two sufficient and necessary conditions for quasidisks. (English summary) **98g:30039**
Dyn'kin, Evsey Smoothness of a quasiconformal mapping at a point. (Russian. Russian summary) **98g:30040**
— Estimates for asymptotically conformal mappings. (English summary) **98h:30030**
Earle, Clifford J. (*with* Li, Zhong[1]) Extremal quasiconformal mappings in plane domains. **98j:30014**
Fang, Ainong (*with* Jiang, Yueping; Fang, Ming[1]) The traces of Clifford matrices and Jørgensen's inequality in $\overline{\mathbf{R}}^n$. (English summary) **98b:30019**
Fang, Ming[1] *see* **Fang, Ainong; et al., 98b:30019**
Gao, Zong Sheng (*with* Sun, Dao Chun) A fundamental inequality for quasiconformal mappings and its application. (Chinese. English and Chinese summaries) **98f:30020**
Gutlyanskiĭ, V. Ya. (*with* Ryazanov, V. I.) On asymptotic symmetry under quasiconformal mappings. (Russian) **98c:30023**
— (*with* Ryazanov, V. I.) Asymptotic homogeneity under quasiconformal mappings. (Russian) **98i:30027**
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Kawa, Wojciech (*with* Zając, Jacek) Dynamical approximation of the distortion function Φ_K. (English and Polish summaries) **98d:30026**
Krushkal, Samuel L. On Grunsky conditions, Fredholm eigenvalues and asymptotically conformal curves. (English summary) **98e:30021**
— On quasireflections and holomorphic functions. **98k:30026**
— (*with* Kühnau, Reiner) A quasiconformal dynamic property of the disk. (English summary) **98m:30029**
Krzyż, Jan G. Isomorphism of Fuchsian groups and harmonic maps. **98b:30020**
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Liu, Chun Ling (*with* Liang, Xiang Qian; Li, Kai Long) Some theorems on K-quasiconformal mappings with positive real part. (Chinese. English and Chinese summaries)
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Partyka, Dariusz Some extremal problems concerning the operator B_γ. (English summary) **98i:30028**
— The generalized Neumann-Poincaré operator and its spectrum. **98e:30022**
Pascu, Nicolae N. (*with* Petrila, Titus) A quasiconformal extension of conformal mappings. I.
Petrila, Titus *see* **Pascu, Nicolae N.**
Qiu, Songliang (*with* Vuorinen, Matti K.) Quasimultiplicative properties for the η-distortion function. (English summary) **98b:30021**
— (*with* Vamanamurthy, Mavina K.) Extremal rings and quasiconformal mappings. (English summary) **98k:30027**
— (*with* Vamanamurthy, Mavina K.; Vuorinen, Matti K.) Bounds for quasiconformal distortion functions. (English summary) **98b:30022**
— *see also* **Anderson, Glen D.; et al., 98g:30038**
Reséndis O., Lino F. (*with* Zając, Józef, Jr.) The Beurling-Ahlfors extension of quasihomographies. (English summary) **98m:30030**
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— *see also* **Gutlyanskiĭ, V. Ya., 98c:30023** *and* **98i:30027**
Sakan, Ken-ichi (*with* Zając, Józef, Jr.) The Douady-Earle extension of quasihomographies. (English summary) **98e:30023**
Shibata, Keiichi A boundary value problem for Beltrami differential equation. (English summary) **98a:30023**
Srebro, Uri (*with* Yakubov, È. Kh.) Branched folded maps and alternating Beltrami equations. **98f:30021**
— (*with* Yakubov, È. Kh.) Uniformization of maps with folds. **98j:30015**
Staples, Susan G. (*with* Ward, Lesley A.) Quasisymmetrically thick sets. (English summary) **98m:30031**
— *see also* **Hurri-Syrjänen, Ritva, 98k:30025**
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Sun, Dao Chun (*with* Yang, Le) Value distribution of quasiconformal mappings. (English summary) **98d:30029**
— *see also* **Gao, Zong Sheng, 98f:30020**
Szynal, Anetta (*with* Zając, Józef, Jr.) Extremal normalization. (English summary) **98i:30029**
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Varisov, A. K. On the quasiconformal continuation of homeomorphisms of plane domains. (Russian) **98h:30031**
— Quasiconformal continuation of quasi-Möbius embeddings. (Russian) **98c:30024**
Vasil'ev, A. Yu. Isoperimetric growth theorems for quasiconformal automorphisms of the disk. (Russian) **98j:30016**
Vuorinen, Matti K. Singular values, Ramanujan modular equations, and Landen transformations. (English summary) **98a:30024**
— *see also* **Qiu, Songliang, 98b:30021** *and* **98b:30022**
Ward, Lesley A. *see* **Staples, Susan G., 98m:30031**
Wei, Jin Sheng (*with* Zhu, Lai Yi) Uniform domains and the Zygmund property. (Chinese. English and Chinese summaries) **98b:30023**
Weitsman, Allen On the dilatation of univalent planar harmonic mappings. (English summary) **98d:30030**
Yakubov, È. Kh. *see* **Srebro, Uri, 98f:30021** *and* **98j:30015**
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Yang, Shanshuang Harmonic and extremal quasiconformal extensions. (English summary) **98c:30025**
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— On dilatations and substantial boundary points of homeomorphisms of Jordan curves. (English summary) **98a:30025**
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Zając, Józef, Jr. Harmonic cross-ratio in the theory of one- and two-dimensional quasiconformal mappings. (English summary) **98g:30042**
— (*with* Zając, Jacek) Basic properties of the distance function M_A and its extremum. (English summary) **98h:30032**
— *see also* **Sakan, Ken-ichi, 98e:30023**; **Paprocki, Ewald, 98g:30041**; **Szynal, Anetta, 98i:30029** *and* **Reséndis O., Lino F., 98m:30030**
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Anderson, Glen D. (*with* Vamanamurthy, Mavina K.; Vuorinen, Matti K.) ★ Conformal invariants, inequalities, and quasiconformal maps. **98h:30033**

Andrievskii, Vladimir (*with* Belyi, Vladimir I.; Dzyadyk, Vladislav Kirillovich) ★ Conformal invariants in constructive theory of functions of complex variable. **98j:30041**

Belyi, Vladimir I. Modern methods of the geometric theory of functions of a complex variable in approximation problems. (Russian. Russian summary) **98h:30009**

— *see also* **Andrievskii, Vladimir; et al., 98j:30041**

Chkvinidze, L. The weighted BMO condition and a constructive description of classes of analytic functions satisfying this condition. (English summary) **98b:30036a**

— Corrigendum: "The weighted BMO condition and a constructive description of classes of analytic functions satisfying this condition". **98b:30036b**

Chuaqui, M. (*with* Osgood, Brad) General univalence criteria in the disk: extensions and extremal function. (English summary) **98m:30009**

Dubejko, Tomasz Circle packings in the unit disc. (English summary) **98e:52019**

Duren, Peter (*with* Khavinson, Dmitry) Boundary correspondence and dilatation of harmonic mappings. (English summary) **98m:30039**

Dzyadyk, Vladislav Kirillovich *see* **Andrievskii, Vladimir; et al., 98j:30041**

de Faria, Edson A priori bounds for C^2 homeomorphisms of the circle. (English summary) **98a:58062**

Keum, Jong Hae (*with* Lee, Man Keun) Teichmüller extremal mappings on the unit disk. (English summary) **98b:30025**

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Kim, Kiwon Circular distortion and the double disk property of curves. **98i:30004**

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Krushkal, Samuel L. Quasireflections with respect to analytic curves. (English summary) **98m:30010**

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Nesi, Vincenzo Reverse Hölder's inequality in nonlinear conductivity. (English summary) **98d:73005**

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Qiu, Songliang Agard's η-distortion function and Schottky's theorem. (English summary) **98i:30022**

Slodkowski, Zbigniew Canonical models for a class of polynomially convex hulls. (English summary) **98c:32015**

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— *see also* **Douady, Adrien; et al., 98i:58195**

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— (*with* Zheng, Jian-Hua) Correction to: "On the fix-points of composite functions and generalizations" [J. Anal. Math. **68** (1996), 59–63; MR 97e:30060]. **98j:30031**
— (*with* Hua, Xin-hou) Unique polynomials of entire and meromorphic functions. (English, Russian and Ukrainian summaries) **98k:30043**
— *see also* **Li, Ping**[3], **98g:30056**; **Ng, Tuen-Wai**, **98g:30057**; **Li, Ping**[1], **98m:30048** *and* **Ng, Tuen-Wai**, **98m:30049**
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— Some theorems on systems of meromorphic functions. II. (Chinese. English and Chinese summaries) **98m:30050**
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— *see also* **Yang, Chung-Chun**, **98j:30031**
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Baker, Irvine Noel On factorizing meromorphic functions. (English summary) **98h:30042**
Barsegyan, G. A. Remarks on connections between mutual distributions of zeros and poles of meromorphic functions and ramification. (Russian)
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— *see also* **Gao, Shi-An**; **et al.**, **98f:34005**
Chiang, Yik-Man (*with* Laine, Ilpo; Wang, Shupei) An oscillation result of a third order linear differential equation with entire periodic coefficients. (English summary) **98h:34005**
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Mortini, Raymond Commuting inner functions. (English summary) **98d:30052**
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— (*with* Yang, Le) Value distribution of quasiconformal mappings. (English summary) **98d:30029**
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30D40 Cluster sets, prime ends, boundary behavior

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30D45 Bloch functions, normal functions, normal families

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— (*with* Chen, Huaihui) On Bloch and automorphic functions. **98m:30051**
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— (*with* Minda, David; Yanagihara, Hiroshi[2]) Distortion theorems for Bloch functions. (English summary) **98g:30059**

Chen, Huaihui (*with* Lappan, Peter) Spherical derivative, higher derivatives and normal families. (English and Chinese summaries) **98e:30037**
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— *see also* **Godula, Janusz, 98c:30043**
Sun, Dao Chun Inequalities for covering surfaces and their applications. (Chinese. Chinese summary) **98j:30036**
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Godula, Janusz (*with* Starkov, Viktor V.) Linearly invariant families of functions that are analytic in a polydisk. (Russian. Russian summary) **98c:32002**
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Wirths, Karl J. (*with* Xiao, Jie[1]) Image areas of functions in the Dirichlet type spaces and their Möbius invariant subspaces. (English summary) **98g:30062**
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30D50 Blashke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part

Bourdon, Paul S. Rudin's orthogonality problem and the Nevanlinna counting function. (English summary) **98b:30034**
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Mortini, Raymond Commuting inner functions. (English summary) **98d:30052**
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Stoilov, P. (*with* Gesheva, R.; Racheva, M.) BMOA estimate and radial growth of B_p functions. (English summary) **98b:30035**
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Chikvinidze, L. The weighted BMO condition and a constructive description of classes of analytic functions satisfying this condition. (English summary) **98b:30036a**
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Daquita, R. Strongly annular solutions of Mahler's functional equation. (English summary) **98c:30034**
Dong, Xinhan (*with* He, Yu Zan) BMOA and multivalent functions. (English summary) **98d:30025**
Dubejko, Tomasz Circle packings in the unit disc. (English summary) **98e:52019**
Dyakonov, Konstantin M. The moduli of holomorphic functions in Lipschitz spaces. **98a:30041**
Dyn'kin, Evsey Estimates for asymptotically conformal mappings. (English summary) **98h:30030**
Essén, Matts (*with* Xiao, Jie[1]) Some results on Q_p spaces, $0 < p < 1$. (English summary) **98d:46024**
Gembarʹska, S. B. Tangential boundary values of the Poisson biharmonic integral in a disk. (Ukrainian. English and Ukrainian summaries) **98i:35040**
Ginzburg, Yu. P. On recovering a multiplicative integral from its modulus [MR 85k:47063]. (English summary) (*see* **98f:47001**)
Guo, Kun Yu The Earl theorem on the maximal ideal space of H^∞. (English and Chinese summaries) **98c:46105**
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Jones, Gavin L. The exponent of convergence of a finite Blaschke product. (English summary) **98j:30023**
Katsnelson, Victor Emanuelovich (*with* Kirstein, Bernd) On the theory of matrix-valued functions belonging to the Smirnov class. (English summary) **98m:47016**
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Livšic, Moshe S. The Blaschke-Potapov factorization theorem and the theory of nonselfadjoint operators. (English summary) **98i:47009**
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Pandeski, Nikola Interpolating Blaschke products and ideal of $H^\infty(U)$. (English summary) **98e:46063**
— (*with* Malčeski, A.) Approximation of a singular inner function by interpolating Blaschke product. (English and Macedonian summaries)
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Singh, Dinesh[1] (*with* Thukral, Virender) Multiplication by finite Blaschke factors on de Branges spaces. (English summary) **98h:46025**
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Thomas, Pascal J. Necessary conditions for interpolating sequences. (English summary) **98i:32006**
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Waldschmidt, Michel Integer valued functions on products. (English summary) **98h:30045**
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30D55 H^p-classes

Aleksandrov, A. B. Isometric embeddings of co-invariant subspaces of the shift operator. (Russian. English and Russian summaries) **98k:30050**
Dyakonov, Konstantin M. The moduli of holomorphic functions in Lipschitz spaces. **98a:30041**
Fisher, Stephen D. (*with* Shapiro, Jonathan E.) Singular factors are rare. **98j:30039**
Kheifets, A. Ya. Nehari's interpolation problem and exposed points of the unit ball in the Hardy space H^1. **98j:30040**
Pavlović, Miroslav A proof of the Hardy-Littlewood theorem on fractional integration and a generalization. (English summary) **98a:30042**
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Aleksandrov, A. B. Lacunary series and pseudocontinuations. (Russian. English and Russian summaries) **98j:30001**

Aleman, Alexandru (*with* Rajput, Balram Singh; Richter, Stefan) On an extremal problem in H^p and prediction of p-stable processes $0 < p < 1$. **98b:60080**
Andersen, Kenneth F. Cesàro averaging operators on Hardy spaces. (English summary) **98h:47041**
Baratchart, L. (*with* Leblond, Juliette) Hardy approximation to L^p functions on subsets of the circle with $1 \le p < \infty$. (English summary) **98i:41041**
Björn, Anders Removable singularities for Hardy spaces. (English summary) **98k:32018**
Bochkarev, S. V. de la Vallée-Poussin series in the spaces BMO, L_1 and $H^1(D)$, and multiplicative inequalities. (Russian) **98b:42004**
Bonet, José (*with* Domański, Paweł; Lindström, Mikael; Taskinen, Jari) Composition operators between weighted Banach spaces of analytic functions. (English summary) **98m:47039**
Chkliar, Vitali Eigenfunctions of the hyperbolic composition operator. (English summary) **98i:47029**
Cima, Joseph A. (*with* Matheson, Alec L.) Essential norms of composition operators and Aleksandrov measures. (English summary) **98e:47047**
— (*with* Matheson, Alec L.) Cauchy transforms and composition operators. **98k:42028**
Cohn, William S. Bergman projections and operators on Hardy spaces. (English summary) **98a:47033**
— Generalized area operators on Hardy spaces. (English summary) **98k:47051**
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Dubtsov, E. S. Corrected outer functions. (English summary) **98k:30048**
Fisher, Stephen D. (*with* Micchelli, Charles A.) Minimal norm interpolation with nonnegative real part on multiply connected planar domains. **98c:46052**
Girela, Daniel Mean Lipschitz spaces and bounded mean oscillation. **98h:46019**
Greene, Robert E. (*with* Krantz, Steven G.) ★ Function theory of one complex variable. (English summary) **98d:30001**
Guo, Kun Yu The Earl theorem on the maximal ideal space of H^∞. (English and Chinese summaries) **98c:46105**
Huang, Mei Ling (*with* Kerman, R. A.; Weit, Yitzhak) Abel summability of the autoregressive series for the best linear least squares predictors. **98j:42006**
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Kim, Yong Chan (*with* Owa, Shigeyoshi; Sekine, Tadayuki) A certain class of multivalent functions associated with the Hardy space. (English summary) **98g:30037**
Krantz, Steven G. *see* **Greene, Robert E., 98d:30001**
Leblond, Juliette *see* **Baratchart, L., 98i:41041**
Lindström, Mikael *see* **Bonet, José; et al., 98m:47039**
Lotto, B. A. A compact composition operator that is not Hilbert-Schmidt. **98j:47071**
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Montes-Rodríguez, Alfonso Banach spaces of hypercyclic vectors. **98g:47027**
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Pavlović, Miroslav On the convolution of harmonic functions and harmonic polynomials. (English summary) **98h:31001**
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Poggi-Corradini, Pietro The Hardy class of geometric models and the essential spectral radius of composition operators. (English summary) **98a:47035**
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— Angular derivatives at boundary fixed points for self-maps of the disk. (English summary) **98g:30049**
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Rudol, Krzysztof Subnormal operators of Hardy type. **98d:47051**
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Smirnov, Vladimir I. On boundary values of functions regular in a disk [J. Soc. Phys.-Math. Leningrade **2** (1928), no. 2, 22–37]. (English summary) (*see* **98f:47001**)
Smith, Wayne Stewart (*with* Zhao, Ruhan) Composition operators mapping into the Q_p spaces. (English summary) **98j:47075**
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Vinogradov, S. A. (*with* Petrov, Andrei Nikolaevich) The converse to a theorem on the action of analytic functions, and multiplicative properties of some subclasses of the Hardy space H^∞. (Russian. English and Russian summaries) **98k:46039**
Weit, Yitzhak *see* **Huang, Mei Ling; et al., 98j:42006**
Wojtaszczyk, P. Uniqueness of unconditional bases in quasi-Banach spaces with applications to Hardy spaces. II. (English summary) **98g:46007**
Xiao, Jie[1] Cesàro-type operators on Hardy, BMOA and Bloch spaces. (English summary) **98b:47045**
Yan, Li Xin A Clifford algebra characterization of H^p spaces. (English summary) **98h:42023**
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30D60 Quasi-analytic and other classes of functions

Items with secondary classifications in 30D60

Dyn'kin, Evsey Estimates for asymptotically conformal mappings. (English summary) **98h:30030**
Thilliez, Vincent Quelques propriétés de quasi-analyticité. [Some properties of quasianalyticity] **98a:26027**

30D99 None of the above, but in this section

Boutabaa, Abdelbaki Décomposition de fonctions méromorphes p-adiques. [Decomposition of p-adic meromorphic functions] **98k:30051**
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Schramm, Oded Circle patterns with the combinatorics of the square grid. **98a:30061**

30Exx Miscellaneous topics of analysis in the complex domain

30E05 Moment problems, interpolation problems

Arov, Damir Zyamovich Gamma-generating matrices, j-inner matrix functions and related extrapolation problems. IV. (Russian. English, Russian and Ukrainian summaries) **98g:30063**
— (*with* Fritzsche, Bernd; Kirstein, Bernd) A function-theoretic approach to a parametrization of the set of solutions of a completely indeterminate matricial Nehari problem. (English summary) **98k:30052**
Brück, Rainer Efficient summability of interpolatory polynomials in the roots of unity. (English summary) **98h:30055**
— Extensions of Walsh's equiconvergence theorem for Jordan domains with analytic boundary curve. **98e:30040**
Chen, Kuan-Lung *see* **Yung, Chee-Fai; et al., 98f:30037**
Fritzsche, Bernd *see* **Arov, Damir Zyamovich; et al., 98k:30052**
Jin, Jia Hua *see* **Mo, Guo Duan; et al.**
Katsnelson, Victor Emanuelovich Interpolation "on the spectrum" in the class of Stieltjes functions (the single node case). (Russian) (*see* **98d:00009**)
Kim, Jeongook A minimal interpolation problem for symmetric rational matrix functions. **98g:30064**
Kirstein, Bernd *see* **Arov, Damir Zyamovich; et al., 98k:30052**
Korenblum, B. (*with* Mascuilli, A.; Panariello, J.) A generalization of Carleman's uniqueness theorem and a discrete Phragmén-Lindelöf theorem. (English summary) **98h:30056**
Lin, Jyun-Tswun *see* **Yung, Chee-Fai; et al., 98f:30037**
Liu, Kai Di *see* **Mo, Guo Duan; et al.**
Malyutin, K. G. The problem of multiple interpolation in the class of analytic functions of completely regular growth in an open half-plane. (Russian. English, Russian and Ukrainian summaries) **98m:30055**
Mascuilli, A. *see* **Korenblum, B.; et al., 98h:30056**
Menegatto, V. A. Interpolation on the complex Hilbert sphere using positive definite and conditionally negative definite kernels. **98i:30052**
Mo, Guo Duan (*with* Jin, Jia Hua; Liu, Kai Di) Newton series expansions of a class of entire functions. (Chinese. English and Chinese summaries)
Øyma, Knut Approximation by interpolating Blaschke products. (English summary) **98c:30045**
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Woracek, Harald Nevanlinna-Pick interpolation: the degenerated case. **98e:30041**
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Yung, Chee-Fai (*with* Yeh, Fang-Bo; Lin, Jyun-Tswun; Chen, Kuan-Lung) A necessary and sufficient condition for the solvability of perturbed Nevanlinna-Pick interpolation problems. (English and Chinese summaries) **98f:30037**

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Alpay, Daniel (*with* Bolotnikov, Vladimir; Loubaton, Philippe) On a new positive extension problem for block Toeplitz matrices. (English summary) **98k:47008**
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Andersson, Mats Erik Integral means on Bergman spaces. (English summary) **98f:30044**
Ball, Joseph A. The nonlinear Nevanlinna-Pick interpolation problem. (English summary) **98a:47012**
— (*with* Gohberg, Israel; Kaashoek, M. A.) Nudelman interpolation and the band method. (English summary) **98b:47020**
Bolkov, I. V. An approximation of analytical functions by local splines. (English summary) **98c:41007**
Bolotnikov, Vladimir *see* **Alpay, Daniel; et al., 98k:47008**
Bos, Len (*with* Calvi, Jean-Paul) Kergin interpolants at the roots of unity approximate C^2 functions. (English summary) **98j:41001**
Brück, Rainer Lagrange interpolation in non-uniformly distributed nodes on the unit circle. (English summary) **98e:41004**
Bultheel, Adhemar (*with* González-Vera, P.; Hendriksen, E.; Njåstad, Olav) Orthogonal rational functions and nested disks. (English summary) **98e:44004**
— (*with* Díaz-Mendoza, C.; González-Vera, P.; Orive Rodríguez, Ramón A.) Quadrature on the half-line and two-point Padé approximants to Stieltjes functions. II. Convergence. (English summary) **98a:41023**
— (*with* Díaz-Mendoza, C.; González-Vera, P.; Orive Rodríguez, Ramón A.) Quadrature on the half line and two-point Padé approximants to Stieltjes functions. III. The unbounded case. (English summary) **98j:41033**
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Camacho Machín, M. (*with* González-Vera, P.) Rational functions associated with double infinite sequences of complex numbers. (English summary) **98m:41029**
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Dijksma, Aad (*with* Langer, Heinz) Notes on a Nevanlinna-Pick interpolation problem for generalized Nevanlinna functions. (English summary) **98g:47015**
Dubovoĭ, V. K. The indefinite metric in the Schur interpolation problem for analytic functions. IV [MR 86c:47008]. (English summary) (*see* **98f:47001**)
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El-Sabbagh, A. A. On the solution of Nevanlinna Pick problem with selfadjoint extensions of symmetric linear relations in Hilbert space. (English summary) **98h:47019**
Filipsson, Lars Complex mean-value interpolation and approximation of holomorphic functions. (English summary) **98k:41006**
Fisher, Stephen D. (*with* Micchelli, Charles A.) Minimal norm interpolation with nonnegative real part on multiply connected planar domains. **98c:46052**
Foias, C. (*with* Frazho, A. E.; Gohberg, Israel; Kaashoek, M. A.) A time-variant version of the commutant lifting theorem and nonstationary interpolation problems. (English summary) **98f:47008**
— (*with* Frazho, A. E.; Gohberg, Israel; Kaashoek, M. A.) Parameterization of all solutions of the three chains completion problem. (English summary) **98k:47031**
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Fritzsche, Bernd (*with* Fuchs, Stefan; Kirstein, Bernd) On Arov-normalized j_{pq}-elementary factors. **98d:47038**
— (*with* Kirstein, Bernd) On some interrelations between the generalized Nehari problem for the Carathéodory class and prediction theory. (English summary) **98e:47022**
Fuchs, Stefan *see* **Fritzsche, Bernd; et al., 98d:47038**
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Ionescu, Adrian On the operator-valued Nevanlinna-Pick problem. (English summary) **98a:47014**
Ismail, Mourad E. H. (*with* Stanton, Dennis) Classical orthogonal polynomials as moments. (English summary) **98f:33033**
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Kats, I. S. (*with* Nudelman, Adolf Abramovich) The Stieltjes strong moment problem. (Russian. Russian summary) **98e:44006**
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Kheifets, A. Ya. Nehari's interpolation problem and exposed points of the unit ball in the Hardy space H^1. **98j:30040**
Kim, Jeongook An inverse homogeneous interpolation problem for V-orthogonal rational matrix functions. **98a:47015**
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Ma, Jin-Hong Interpolation on arbitrary regions in the complex plane. (English summary) **98d:65015**
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Mikhailova, Irina V. Weyl matrix circles as a tool for uniqueness in the theory of multiplicative representation of J-inner matrix functions [translated from *Analysis in infinite-dimensional spaces and operator theory (Russian)*, 101–117, "Naukova Dumka", Kiev, 1983]. (English summary) **98h:30054**
Nah, Young-Chae Multipliers on the Dirichlet space $D(\Omega)$. (English summary) **98f:47040**
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Orive Rodríguez, Ramón A. *see* **Bultheel, Adhemar; et al., 98a:41023** *and* **98j:41033**
Pan, K. C. Moment problem for rational orthogonal functions on the unit circle. (English summary) **98e:44007**
Parfënov, O. G. An approach to interpolation theory in Hilbert spaces of analytic functions. (Russian)
Pedersen, Henrik L. La paramétrisation de Nevanlinna et le problème des moments de Stieltjes indéterminé. (English summary) [The Nevanlinna parametrization and the indeterminate Stieltjes moment problem] **98m:42054**
Razafinjatovo, Haja N. *see* **Gröchenig, Karlheinz, 98m:42029**
Reczek, Krzysztof On rational interpolation at the roots of unity. (English and Polish summaries) **98f:41015**
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Tu, TianLiang (*with* Yang, Qiao; Chen, Shunqing) Simultaneous approximation to function and its derivative by Hermite interpolation polynomials in a smooth domain. (English and Chinese summaries) **98a:41028**
Voss, J. J. A sampling theorem with nonuniform complex nodes. (English summary) **98i:30039**
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Wang, Quan Long On set $\{N_k^-(x)\}_{k=0}^n$. (English summary) **98f:41003**
Woracek, Harald Multiple point interpolation in Nevanlinna classes. (English summary) **98c:47018**
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Young, Robert M. On a class of Riesz-Fischer sequences. (English summary) **98k:42006**

30E10 Approximation in the complex domain

Andrievskiĭ, Vladimir (*with* Belyi, Vladimir I.; Dzyadyk, Vladislav Kirillovich) ★ Conformal invariants in constructive theory of functions of complex variable. **98j:30041**
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Borodin, P. A. On polynomials that deviate most from zero on a domain boundary. (Russian. Russian summary) **98j:30042**
Chkvinidze, L. The weighted BMO condition and a constructive description of classes of analytic functions satisfying this condition. (English summary) **98b:30036a**
— Corrigendum: "The weighted BMO condition and a constructive description of classes of analytic functions satisfying this condition". **98b:30036b**
Danchenko, V. I. Some integral estimates for derivatives of rational functions on sets with bounded density. (Russian. Russian summary) **98c:30046**
Dubejko, Tomasz Approximation of analytic functions with prescribed boundary conditions by circle-packing maps. (English summary) **98e:30042**
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Gaier, Dieter Polynomial approximation of conformal maps. (English summary) **98j:30043**
Garabedian, P. R. A comment about Runge's theorem. **98c:30047**
Gonska, Heinz H. (*with* Kovacheva, Ralitza K.) An extension of Montel's theorems to some rational approximating sequences. (English and Polish summaries) **98m:30056**
Kovacheva, Ralitza K. *see* **Gonska, Heinz H., 98m:30056**
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Luh, Wolfgang Multiply universal holomorphic functions. (English summary) **98e:30043**
Malčeski, A. *see* **Pandeski, Nikola**
Pandeski, Nikola (*with* Malčeski, A.) Approximation of a singular inner function by interpolating Blaschke product. (English and Macedonian summaries)
— Approximation of an infinite Blaschke product by finite Blaschke product whose zeroes satisfy a separation condition. (English summary) (*see* **98h:00033**)
Pedersen, Henrik L. Uniform estimates of entire functions by logarithmic sums. (English summary) **98i:30053**
Pritsker, I. E. (*with* Varga, Richard S.) Weighted polynomial approximation in the complex plane. (English summary) **98c:30048**
Varga, Richard S. *see* **Pritsker, I. E., 98c:30048**

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Abdullaev, F. G. Uniform convergence of the generalized Bieberbach polynomials in regions with non-zero angles. **98m:30008**
Ambroladze, A. U. (*with* Wallin, Hans) Rational interpolants with prescribed poles, theory and practice. (English summary) **98m:41024**
— (*with* Wallin, Hans) Padé-type approximants of Markov and meromorphic functions. (English summary) **98m:41028**
Andriesh, G. S. (*with* Zolotarevskiĭ, V. A.) Approximation of functions in generalized Hölder spaces, and the approximate solution of singular integral equations. (Russian. Russian summary) **98i:45002**
Aziz, Abdul[1] (*with* Shah, W. M.) Some refinements of Bernstein-type inequalities for rational functions. (English summary) **98h:41014**
Baratchart, L. (*with* Saff, E. B.; Wielonsky, F.) A criterion for uniqueness of a critical point in H_2 rational approximation. (English summary) **98b:41015**
— (*with* Leblond, Juliette) Hardy approximation to L^p functions on subsets of the circle with $1 \le p < \infty$. (English summary) **98i:41041**
Belyi, Vladimir I. On a problem of approximation to the analytic function by analytic complex planar splines in the quasidisk. (English summary) **98e:41003**
— Modern methods of the geometric theory of functions of a complex variable in approximation problems. (Russian. Russian summary) **98h:30009**
— Nonlinear conformal modeling in approximating theory. (*see* **98i:00027**)
Bernal-González, Luis Universal functions for Taylor shifts. (English summary) **98h:47042**
Bonilla, A. (*with* Fariña Gil, Juan Carlos) C^m-approximation with C^m-extension on closed sets. (Italian summary) **98d:41026**
Brück, Rainer Extensions of Walsh's equiconvergence theorem for Jordan domains with analytic boundary curve. **98e:30040**
Calvi, Jean-Paul A new look at a Fekete-Szegö theorem. (English summary) **98e:41005**
Cuyt, Annie (*with* Lubinsky, D. S.) On the convergence of multivariate Padé approximants. (English summary) **98j:41011**
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Fang, Gen Sun Approximating properties of entire functions of exponential type. (English summary) **98k:30038**
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Fedorovskiĭ, K. Yu. On uniform approximations of functions by n-analytic polynomials on rectifiable contours in $\mathbf{C}$. (Russian. Russian summary) **98b:41005**
Filipsson, Lars Complex mean-value interpolation and approximation of holomorphic functions. (English summary) **98k:41006**
Fruchard, Augustin (*with* Schäfke, Reinhard) On the Borel transform. (English and French summaries) **98e:30044**
Fryntov, A. E. A uniqueness theorem connected with weighted polynomial approximation on a sequence. (Russian. English, Russian and Ukrainian summaries) **98i:41047**
Fuhrmann, Paul A. ★ A polynomial approach to linear algebra. **98a:15001**
Gilewicz, Jacek *see* **Ivanov, Ivan Velichkov; et al., 98d:41018**
Goodman, Tim N. T. (*with* Sharma, Ambikeshwar) A property of Hermite-Padé interpolation on the roots of unity. (English summary) **98g:41017**
Graves-Morris, P. R. (*with* Roberts, D. E.) Problems and progress in vector Padé approximation. (English summary) **98a:41024**
He, Matthew X. The orthogonality of weighted Faber polynomials. (English summary) (*see* **98d:41001**)

— On the zeros of weighted Faber polynomials. (English summary) **98a:30005**
Ivanov, Ivan Velichkov (*with* Kovacheva, Ralitza K.; Gilewicz, Jacek) Rational functions of best uniform approximation and holomorphic continuation of functions. (English summary) **98d:41018**
Kovacheva, Ralitza K. Zeros of Padé approximants for some classes of functions. (English summary) **98a:41025**
— *see also* **Ivanov, Ivan Velichkov; et al., 98d:41018**
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Lutterodt, Clement (*with* Darko, Patrick) A preliminary approach to a meromorphic approximation in a strictly pseudoconvex domain. (English summary) (*see* **98d:41001**)
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Nussbaum, Roger D. (*with* Walsh, Bertram) Approximation by polynomials with nonnegative coefficients and the spectral theory of positive operators. (English summary) **98h:47053**
Osipenko, K. Yu. (*with* Wilderotter, K.) Optimal information for approximating periodic analytic functions. (English summary) **98a:41010**
Partyka, Dariusz On approximation of complex-valued harmonic functions in Jordan domains. (English summary) **98i:31001**
Potapov, M. K. (*with* Sharovich, Ĭ. M.) On the approximation of functions that are analytic in a strip. (Russian. Russian summary)
Roberts, D. E. *see* **Graves-Morris, P. R., 98a:41024**
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Squire, William (*with* Trapp, George) Using complex variables to estimate derivatives of real functions. (English summary)
Stahl, Herbert Diagonal Padé approximants to hyperelliptic functions. (English and French summaries) **98g:41018**
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Xing, Fu Chong Order of best approximations by polynomials in H_q^p $(p \geq 1,\ q > 1)$ spaces. (English summary) **98a:41039**
Zolotarevskiĭ, V. A. *see* **Andriesh, G. S., 98i:45002**

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"Conjectures around the Baker-Gammel-Wills conjecture" Erratum: "Conjectures around the Baker-Gammel-Wills conjecture" [Constr. Approx. **13** (1997), no. 2, 287–292; MR 98b:41017a] by H. Stahl. **98b:41017b**

30E15 Asymptotic representations in the complex domain

Brüning, Erwin A. K. How to reconstruct an analytic function from its asymptotic expansion? (English summary) **98a:30044**
Fruchard, Augustin (*with* Schäfke, Reinhard) On the Borel transform. (English and French summaries) **98e:30044**
Sauer, Andreas On the asymptotic expansion of Hadamard products. (English summary) **98d:30053**
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Aupetit, Bernard On log-subharmonicity of singular values of matrices. (English summary) **98b:15009**
Balser, Werner Moment methods and formal power series. (English summary) **98m:34114**
Benzine, Rachid Asymptotic behavior of orthogonal polynomials corresponding to a measure with infinite discrete part off a curve. (English summary) **98g:42036**
Kolke, Tatsuya On perturbation series of eigenvalues of anharmonic oscillators. **98m:34116**

30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [see also 45Exx]

Chang, Chiu-Cheng On a class of Pólya property preserving operators. (English summary) **98i:30054**
Cima, Joseph A. Some open questions concerning Gelfer functions and Cauchy transforms. **98g:30065**
Dyukarev, Yu. M. Integral representations of a pair of nonnegative operators and interpolation problems in the Stieltjes class. (English summary) **98k:30053**
Gerus, O. F. An estimate for the modulus of continuity of a Cauchy-type integral in a domain and on its boundary. (Russian. English and Ukrainian summaries) **98c:30049**
Grushevskiĭ, S. P. On the distribution of the values of Cauchy-type integrals. (Russian) **98a:30045**
Hallenbeck, David J. (*with* Samotij, K.) The growth of derivatives of multipliers of Cauchy transforms of logarithmic potentials. (English summary) **98a:30046**
Hibschweiler, R. A. Composition operators on spaces of Cauchy transforms. (English summary) **98m:30057**
Huovinen, Petri Singular integrals and rectifiability of measures in the plane. **98g:30066**
Král, Josef (*with* Medková, Dagmar) Angular limits of the integrals of the Cauchy type. (English summary) **98j:30044**
Kravchenko, Vladislav V. (*with* Shapiro, M. V.) ★ Integral representations for spatial models of mathematical physics. (English summary) **98d:30054**
Markushevich, L. A. (*with* Tumarkin, G. Ts.) On a class of functions that can be represented in a domain by an integral of Cauchy-Stieltjes type. (Russian) **98j:30045**
Medková, Dagmar *see* **Král, Josef, 98j:30044**
Mshimba, Ali Seif The Vekua integral operators T_D, Π_D in weighted Lebesgue spaces. (English summary) **98a:30047**
Samotij, K. *see* **Hallenbeck, David J., 98a:30046**
Shapiro, M. V. *see* **Kravchenko, Vladislav V., 98d:30054**
Tumarkin, G. Ts. *see* **Markushevich, L. A., 98j:30045**
Wazwaz, Abdul-Majid A study on complex integrals involving absolute values. (English summary) **98h:30057**
Zhang, Pei Xuan The principal values and conjugate functions of Cauchy-type integrals. (Chinese. English and Chinese summaries) **98h:30058**
— Approximation operators for principal values of Cauchy-type integrals. (Chinese. Chinese summary)
Zhong, Shou Guo Transcendental singular integrals and a generalized residue theorem. (Chinese. Chinese summary) **98f:30038**

Items with secondary classifications in 30E20

Banerjea, Sudeshna *see* **Chakrabarti, Aloknath; et al., 98e:45001**
Basu, U. *see* **Chakrabarti, Aloknath; et al., 98e:45001**
Cengiz, Ahmet A study on the Epstein-Hubbell generalized elliptic-type integral using residue theory. (English summary) **98b:33043**
Chakrabarti, Aloknath (*with* Mandal, Birendra Nath; Basu, U.; Banerjea, Sudeshna) Solution of a hypersingular integral equation of the second kind. (English summary) **98e:45001**
Dickenstein, Alicia (*with* Iriondo, Mirta Susana; Rojas, Teresita Alejandra) Integrating singular functions on the sphere. (English summary) **98h:32006**
Dostanić, Milutin R. The properties of the Cauchy transform on a bounded domain. (English summary) **98m:47041**
Fitt, A. D. When Tuck's double integral which should (?) vanish does. (English summary) **98e:26015**
Ginzburg, Yu. P. On recovering a multiplicative integral from its modulus [MR 85k:47063]. (English summary) (*see* **98f:47001**)
Hallenbeck, David J. (*with* Samotij, K.) The growth of derivatives of multipliers of fractional Cauchy transforms. (English summary) **98m:30054**
Iriondo, Mirta Susana *see* **Dickenstein, Alicia; et al., 98h:32006**
Katsnelson, Victor Emanuelovich On transformations of Potapov's fundamental matrix inequality. (English summary) **98j:47035**
Kazantsev, S. G. Integral formulas of Cauchy type for generalized A-analytic functions. (Russian) **98d:30058**
Kratz, Werner An extremal problem for Stokes functions in the plane. (English summary) **98i:35146**
Mandal, Birendra Nath *see* **Chakrabarti, Aloknath; et al., 98e:45001**
Rojas, Teresita Alejandra *see* **Dickenstein, Alicia; et al., 98h:32006**
Roşculeţ, M. N. Sur la formule Cauchy-Pompeiu. (English, French and Romanian summaries) [On the Cauchy-Pompeiu formula] **98c:30002**
Samotij, K. *see* **Hallenbeck, David J., 98m:30054**
Sorokin, A. S. Structural formulas for some classes of analytic functions in a finitely connected domain. (Russian. Russian summary) **98k:30008**
Wei, Zhi Yong (*with* Zhu, Yong Tai) The extended Jordan's lemma and the relation between Laplace transform and Fourier transform. (Chinese. English and Chinese summaries) **98i:44001**
Zhu, Yong Tai *see* **Wei, Zhi Yong, 98i:44001**

30E25 Boundary value problems [see also 45Exx]

Avkhadiev, F. G. (*with* Elizarov, A. M.) Sharp estimates for the solution of a variational inverse boundary value problem in a countably connected domain. (Russian) **98a:30048**
Damjanović, Božko Functional relations between analytic functions in multiply connected regions. (English summary) **98c:30050**
— Boundary value problem with shift for two simple connected regions. (English and Macedonian summaries) **98g:30067**
— Boundary value problem with shift for two simply connected regions. (English summary)
Denisyuk, I. T. Solution of a conjugation problem for a composite domain with corner points on lines of separation. (Russian) **98b:30037**
Dont, Miroslav *see* **Dontová, Eva; et al., 98k:30054**
Dontová, Eva (*with* Dont, Miroslav; Král, Josef) Reflection and a mixed boundary value problem concerning analytic functions. (English summary) **98k:30054**
Dubinskiĭ, Yu. A. On analytic "boundary value" problems in the plane. (Russian) **98k:30055**
Efendiev, Messoud (*with* Wendland, Wolfgang L.) Nonlinear Riemann-Hilbert problems without transversality. (English summary) **98b:30038**
Elizarov, A. M. *see* **Avkhadiev, F. G., 98a:30048**
Jin, Guo Xiang Approximate solution of Hilbert boundary value problems. (Chinese. English and Chinese summaries) **98b:30039**
Kazaryan, K. S. (*with* Soria, Fernando; Spitkovsky, Ilya M.) The Riemann boundary value problem in spaces with a weight that admits singularities. (Russian) **98j:30046**
Kerekesha, P. V. (*with* Khachaturov, S. Yu.) The Carleman problem in an annulus for two pairs of functions. (Russian. English and Ukrainian summaries) **98h:30059**
Khachaturov, S. Yu. *see* **Kerekesha, P. V., 98h:30059**
Král, Josef *see* **Dontová, Eva; et al., 98k:30054**
Kutlu, Kadir On Riemann boundary value problem and characteristic singular integral equation. (English summary)
Li, Xing A class of inverse Riemann boundary value problems. (Chinese. English and Chinese summaries) **98g:30068**

Lu, Jian Ke On homogeneous Riemann boundary value problems of higher degree. (English summary) **98g:30069**
Mandzhavidze, G. F. Boundary value problems of the theory of generalized analytic vectors. (English summary) **98b:30040**
Matyukaite, R. The Riemann-Hilbert problem with discontinuous coefficients for the Moisil-Teodorescu system with lower terms. (Russian. Lithuanian summary) **98m:30058**
Mityushev, Vladimir Riemann problem on the double of a multiply connected circular region. (English summary) **98f:30039**
Salimov, R. B. (*with* Shabalin, P. L.) An inverse mixed boundary value problem for an infinitely connected domain with a periodic boundary. (Russian) **98a:30049**
Shabalin, P. L. *see* **Salimov, R. B., 98a:30049**
Soria, Fernando *see* **Kazaryan, K. S.; et al., 98j:30046**
Spitkovsky, Ilya M. *see* **Kazaryan, K. S.; et al., 98j:30046**
Usmanov, Z. D. ★ Generalized Cauchy-Riemann systems with a singular point. (English summary) **98f:30040**
Wendland, Wolfgang L. *see* **Efendiev, Messoud, 98b:30038**
Yang, Shuo Generalized Riemann-Hilbert-Poincaré boundary value problems for bianalytic functions and complex harmonic functions. (Chinese. English and Chinese summaries)
Zhang, Yi Lian Carleman interior and exterior boundary value problems for bianalytic functions. (Chinese. English and Chinese summaries)
Zhao, Zhen[1] Riemann-Hilbert's problem for bianalytic functions. (English and Chinese summaries) **98b:30041**

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Akal, M. (*with* Begehr, Heinrich) On the Pompeiu operator of higher order and applications. (English summary) **98f:35023**
Alessandrini, Elisa (*with* Boffi, Daniele; Torelli, Alessandro) Study of an obstacle vortex free boundary problem. (Italian summary) **98g:35217**
Alkumru, A. (*with* Polat, B.) Multiple diffraction of a line source field by a three-part thin transmissive slab. (English summary) **98m:76138**
Begehr, Heinrich (*with* Hile, Gerald N.) Higher order Cauchy Pompeiu operators. **98m:35046**
— *see also* **Akal, M., 98f:35023** *and* **Bliev, N., 98g:30075**
(Bers, Lipman) *see* **Nirenberg, Louis, (98e:00027)**
Bliev, N. ★ Generalized analytic functions in fractional spaces. **98g:30075**
Boffi, Daniele *see* **Alessandrini, Elisa; et al., 98g:35217**
Bolibrukh, A. A. The Riemann-Hilbert problem and Fuchsian differential equations on the Riemann sphere. **98e:32038**
— Holomorphic bundles, associated with linear differential equations and the Riemann-Hilbert problem. (English summary) **98e:32022**
Deift, Percy A. (*with* Its, A. R.; Zhou, Xin) A Riemann-Hilbert approach to asymptotic problems arising in the theory of random matrix models, and also in the theory of integrable statistical mechanics. **98k:47097**
Dubatovskaya, M. V. (*with* Rogozin, S. V.) Homogeneous characteristic equation with an infinite index in the exceptional case. (Russian. English and Russian summaries) **98h:45004**
Efendiev, Messoud (*with* Wendland, Wolfgang L.) Nonlinear Riemann-Hilbert problems and the similarity principle for multiply connected domains. (*see* **98i:00036**)
Feng, Chun Hua *see* **Li, Zhengwu; et al., 98g:35061**
Gilbert, Robert P. (*with* Li, Ming Zhong) A class of nonlinear Riemann-Hilbert problems for the second order elliptic system. (English summary) **98f:35042**
Gorenflo, Norbert (*with* Werner, Matthias) Solution of a finite convolution equation with a Hankel kernel by matrix factorization. (English summary) **98c:45004**
Gürlebeck, Klaus (*with* Sprößig, Wolfgang) Clifford-analysis and elliptic boundary value problems. (English summary) **98h:30068**
Hile, Gerald N. *see* **Begehr, Heinrich, 98m:35046**
Huang, Min Hai The welding problem for an anisotropic half-plane and an isotropic strip. (Chinese. English and Chinese summaries)
Huang, Sha *see* **Wen, Guo Chun, 98j:35071**
Its, A. R. *see* **Deift, Percy A.; et al., 98k:47097**
Kokilashvili, V. M. (*with* Paatashvili, V.) On the Riemann-Hilbert problem in the domain with a nonsmooth boundary. (English summary) **98c:35125**
Korobeĭnik, Yu. F. On periodic solutions of the Cauchy problem. I. (Russian) **98b:35013**
— On periodic solutions of the Cauchy problem. II. (Russian) **98b:35014**
Lee, Duan-Shin Analysis of a two-queue model with Bernoulli schedules. (English summary) **98c:60129**
Li, Ming Zhong *see* **Gilbert, Robert P., 98f:35042**
Li, Zhengwu (*with* Xiao, Lihua; Feng, Chun Hua) The solvability of the boundary value problem of the four elements with the Carleman shift and complex-conjugate values. (English summary) **98g:35061**
Mamourian, A. A regular oblique derivative problem for an elliptic equation. (English summary) (*see* **98h:00035**)
Meister, Erhard Funktionentheorie und Funktionalanalysis. [Function theory and functional analysis] **98j:01033**
Mitin, S. P. (*with* Soldatov, A. P.) On the solvability of the generalized mixed problem. (Russian. Russian summary) **98b:35043**
Nguyen Minh Tuan On a class of singular integral equations with rotations. (English summary) **98c:45003**
Nirenberg, Louis Lipman Bers and partial differential equations. (*see* **98e:00027**)
Obnosov, Yu. V. Solution of the R-linear conjugation problem in the theory of composites for a three-component medium. (Russian) **98d:78005**
Oestreich, Dieter *see* **Wegert, Elias, 98g:35226**
Ohkawa, Sumio *see* **Uehara, Masahiro; et al., 98c:78017**
Ospanov, K. N. Coercive solvability of the generalized Cauchy-Riemann system in the space $L_p(E)$. (Russian. English and Ukrainian summaries) **98b:35047**
— On the nonlinear generalized Cauchy-Riemann system on the whole plane. (Russian. Russian summary) **98f:35041**
Paatashvili, V. *see* **Kokilashvili, V. M., 98c:35125**
Polat, B. *see* **Alkumru, A., 98m:76138**
Qiao, Yu Ying The oblique derivative boundary value problem for generalized regular quaternion-valued functions. (Chinese. English and Chinese summaries)
(Radok, Jens Rainer Maria) *see* **Bliev, N., 98g:30075**
Rakowski, Marek (*with* Spitkovsky, Ilya M.) Spectral factorization of measurable rectangular matrix functions and the vector-valued Riemann problem. (English summary) **98a:15030**
Rogozin, S. V. *see* **Dubatovskaya, M. V., 98h:45004**
Shibata, Keiichi A boundary value problem for Beltrami differential equation. (English summary) **98a:30023**
Soldatov, A. P. *see* **Mitin, S. P., 98b:35043**
Spitkovsky, Ilya M. *see* **Rakowski, Marek, 98a:15030**
Sprößig, Wolfgang *see* **Gürlebeck, Klaus, 98h:30068**
Strugov, Yu. F. On the existence of homeomorphic solutions of systems of equations of elliptic type. (Russian) **98g:30045**
Torelli, Alessandro *see* **Alessandrini, Elisa; et al., 98g:35217**
Turmetov, B. Kh. On a boundary value problem for the harmonic equation. (Russian. Russian summary) **98i:35033**
Tutschke, W. (*with* Vasudeva, Harkrishan L.) A variational principle for generalized analytic functions. (English summary) **98h:35056**
Uehara, Masahiro (*with* Yashiro, Ken'ichiro; Ohkawa, Sumio) A method for solving Riemann-Hilbert boundary value problems in nonreciprocal wave propagation. (English summary) **98c:78017**
Vasudeva, Harkrishan L. *see* **Tutschke, W., 98h:35056**
Wegert, Elias (*with* Oestreich, Dieter) On a non-symmetric problem in electrochemical machining. (English summary) **98g:35226**
Wen, Guo Chun (*with* Huang, Sha) The Riemann-Hilbert boundary value problem for nonlinear elliptic complex equations of *n*th order. (English summary) **98j:35071**
Wendland, Wolfgang L. *see* **Efendiev, Messoud, (98i:00036)**
Werner, Matthias *see* **Gorenflo, Norbert, 98c:45004**
von Wolfersdorf, Lothar Identification of memory-kernels and Riemann-Hilbert problems. (English summary) **98i:35115**
Xiao, Lihua *see* **Li, Zhengwu; et al., 98g:35061**
Yashiro, Ken'ichiro *see* **Uehara, Masahiro; et al., 98c:78017**
Zeng, Yue Sheng Riemann boundary value problems for hyperanalytic functions on closed fractal curves. (Chinese. English and Chinese summaries) **98c:30059**
Zhou, Xin *see* **Deift, Percy A.; et al., 98k:47097**

30E99 None of the above, but in this section

Ovchintsev, M. P. Optimal reconstruction of functions of class E_p, $1 \le p \le \infty$, in multiply connected domains. (Russian. Russian summary) **98a:30050**
Savchuk, V. V. On a mean-value theorem for analytic functions. (Ukrainian. English and Ukrainian summaries)
Száz, Árpád A Cauchy's mean value theorem for complex functions.
Wei, Yu[2] A generalized formula for residues of second-order poles. (Chinese. English and Chinese summaries)

Items with secondary classifications in 30E99

Garif'yanov, F. N. Transformations of biorthogonal systems, and some of their applications. I. (Russian) **98h:42034a**
— Transformations of biorthogonal systems, and some of their applications. II. (Russian) **98h:42034b**
Jöricke, B. *see* **Khavin, Viktor Petrovich, (98b:42001)**
Khavin, Viktor Petrovich (*with* Jöricke, B.) The uncertainty principle in harmonic analysis [MR 93e:42001]. (*see* **98b:42001**)
Li, Xin[3] Integral formulas and inequalities for rational functions. (English summary) **98f:41008**
Sizer, Walter S. (*with* Wiredu, E. K.) Convergence of some continued roots in the complex plane. **98d:40003**
Wiredu, E. K. *see* **Sizer, Walter S., 98d:40003**
Yamashita, Shinji The Poincaré and the spherical densities. (English summary) **98k:30065**

30Fxx Riemann surfaces

Items with secondary classifications in 30Fxx

(Hildebrandt, Stefan) *see* **Weyl, Hermann, 98j:01047**
(Hulek, Klaus) *see* **Weyl, Hermann, 98j:01047**
(Patterson, Samuel) *see* **Weyl, Hermann, 98j:01047**
(Remmert, Reinhold) *see* **Weyl, Hermann, 98j:01047**
(Schneider, Michael) *see* **Weyl, Hermann, 98j:01047**
Weyl, Hermann ★ Die Idee der Riemannschen Fläche. (German) [The concept of a Riemann surface] **98j:01047**

Items listed otherwise than by author

Biography:
Weyl, Hermann *see* **Weyl, Hermann, 98j:01047**

30F10 Compact Riemann surfaces and uniformization [see also 14H15, 32G15]

Costa, Antonio F. Embeddable anticonformal automorphisms of Riemann surfaces. (English summary) **98m:30059**
Everitt, Brent A family of conformally asymmetric Riemann surfaces. (English summary) **98i:30055**
Kulkarni, Ravi S. Riemann surfaces admitting large automorphism groups. (English summary) **98g:30070**
Singerman, David (*with* Watson, Paul) Weierstrass points on regular maps. (English summary) **98d:30055**
— Hyperelliptic maps and surfaces. (English summary) **98j:30047**

Streit, Manfred Homology, Belyĭ functions and canonical curves. **98a:30051**
Turbek, Peter A necessary and sufficient condition for lifting the hyperelliptic involution. (English summary) **98a:30052**
Vasil'ev, A. Yu. Invariant metrics and harmonic functionals on the Teichmüller space. (Russian. Russian summary) **98e:30045**
Watson, Paul *see* **Singerman, David**, **98d:30055**

Items with secondary classifications in 30F10

(Bers, Lipman) *see* **Kra, Irwin**, **98g:01063**
Brooks, Robert Wolfe (*with* Kopeliovich, Yaacov) Uniformization of some quotients of modular curves. (English summary) **98h:11075**
Chetiya, Buddha Prasad *see* **Dutta, Sanjay Kumar; et al.**, **98f:20032**
Cutillas Ripoll, Pascual (*with* Verde Ramirez, José Maria) Weierstrass factorizations in compact Riemann surfaces. (English summary) **98m:30045**
Diller, Jeffrey Limits on an extension of Carleson's $\overline{\partial}$-theorem. (English summary) **98a:30053**
Dolgopolova, O. B. Construction of all two-sheeted unlimited unramified coverings of a closed Riemann surface. (Russian. English and Russian summaries) **98a:14039**
Dutta, Sanjay Kumar (*with* Patra, Kuntala; Chetiya, Buddha Prasad) ZS-metacyclic groups of automorphisms of compact Riemann surfaces. (English summary) **98f:20032**
Gallo, Daniel M. The topology of real projective structures. (English summary) **98m:32033**
— Deforming real projective structures. (English summary) **98a:32021**
Ghys, Étienne Sur l'uniformisation des laminations paraboliques. [On the uniformization of parabolic laminations] **98e:57040**
Gromadzki, Grzegorz On a Harnack-Natanzon theorem for the family of real forms of Riemann surfaces. (English summary) **98k:14082**
Izquierdo Barrios, Milagros (*with* Singerman, David) Pairs of symmetries of Riemann surfaces. (English summary) **98m:20065**
Jorgensen, Troels Closed geodesics on the modular surface. (English summary) **98a:30054**
Kopeliovich, Yaacov *see* **Brooks, Robert Wolfe**, **98h:11075**
Kra, Irwin Uniformizations of Riemann surfaces: Poincaré theta series, Riemann's theta function and theta constants. **98c:32021**
— (*with* Maskit, Bernard) Lipman Bers, complex analyst. **98g:01063**
Liebeck, Martin W. (*with* Wayman Purvis, Chris) On the genus of a finite classical group. **98b:20086**
Maskit, Bernard *see* **Kra, Irwin**, **98g:01063**
Partyka, Dariusz The generalized Neumann-Poincaré operator and its spectrum. **98e:30022**
Patra, Kuntala *see* **Dutta, Sanjay Kumar; et al.**, **98f:20032**
Quine, J. R. Systoles of two extremal Riemann surfaces. (English summary) **98i:11046**
Ries, John F. X. The splitting of some Jacobi varieties using their automorphism groups. (English summary) **98c:14022**
Rubei, Elena Characterization of the morphisms between Jacobians induced by morphisms between Riemann surfaces. (Italian summary) **98d:14040**
Schmieder, G. (*with* Shiba, Masakazu) Realisierungen des idealen Randes einer Riemannschen Fläche unter konformen Abschließungen. (English summary) [Realizations of the ideal boundary of a Riemann surface under conformal closures] **98j:30048**
Seppälä, M. Computational conformal geometry. **98k:14084**
Shiba, Masakazu *see* **Schmieder, G.**, **98j:30048**
Singerman, David *see* **Izquierdo Barrios, Milagros**, **98m:20065**
Sjerve, Denis (*with* Yang, Qingjie) Conjugacy classes of p-torsion in $\mathrm{Sp}_{p-1}(\mathbf{Z})$. **98k:20082**
Torres, Fernando Bounding the order of automorphisms of certain curves. (English and Italian summaries) **98f:14010**
Verde Ramirez, José Maria *see* **Cutillas Ripoll, Pascual**, **98m:30045**
Wayman Purvis, Chris *see* **Liebeck, Martin W.**, **98b:20086**
Yang, Qingjie *see* **Sjerve, Denis**, **98k:20082**
Zilber, B. I. Quasi-Riemann surfaces. **98h:03050**

30F15 Harmonic functions on Riemann surfaces

Items with secondary classifications in 30F15

Korzan, L. A. A homogeneous mixed problem in the theory of elasticity for a strip with cuts situated on the real axis. (Russian. English and Russian summaries) **98c:73030**
López, Francisco J. (*with* Ritoré, Manuel; Wei, Fusheng) A characterization of Riemann's minimal surfaces. (English summary) **98k:53011**
Ritoré, Manuel *see* **López, Francisco J.; et al.**, **98k:53011**
Wei, Fusheng *see* **López, Francisco J.; et al.**, **98k:53011**
Yamaguchi, Hiroshi[1] Orthogonal decomposition related to magnetic field, and Grunsky inequality. **98a:78007**

30F20 Classification theory of Riemann surfaces

Items with secondary classifications in 30F20

Simha, R. R. (*with* Srinivas, Vasudevan) Riemann surfaces. **98j:14037**
Srinivas, Vasudevan *see* **Simha, R. R.**, **98j:14037**

30F25 Ideal boundary theory

Chen, Jixiu (*with* Wei, Hanbai) Some geometric properties on a model of universal Teichmüller spaces. (English summary) **98m:30060**
Schmieder, G. (*with* Shiba, Masakazu) Realisierungen des idealen Randes einer Riemannschen Fläche unter konformen Abschließungen. (English summary) [Realizations of the ideal boundary of a Riemann surface under conformal closures] **98j:30048**
Shiba, Masakazu *see* **Schmieder, G.**, **98j:30048**
Wei, Hanbai *see* **Chen, Jixiu**, **98m:30060**

Items with secondary classifications in 30F25

Masaoka, Hiroaki Criterion of Wiener type for minimal thinness on covering surfaces. **98g:31008**

30F30 Differentials on Riemann surfaces

Cheng, Jin Fa (*with* Chu, Yu Ming; Gu, Guang Ze) Teichmüller extremal mappings of an angular region. (Chinese. English and Chinese summaries) **98i:30056**
Chu, Yu Ming *see* **Cheng, Jin Fa; et al.**, **98i:30056**
Diller, Jeffrey Limits on an extension of Carleson's $\overline{\partial}$-theorem. (English summary) **98a:30053**
Gu, Guang Ze *see* **Cheng, Jin Fa; et al.**, **98i:30056**
Higuchi, Teiichi *see* **Yamazaki, Seisi; et al.**, **98b:30042**
Ikeda, Toshikazu *see* **Yamazaki, Seisi; et al.**, **98b:30042**
Ito, Minoru[2] *see* **Yamazaki, Seisi; et al.**, **98b:30042**
Kubo, Masahiko *see* **Yamazaki, Seisi; et al.**, **98b:30042**
Kuz'mina, G. V. On the existence of quadratic differentials with prescribed properties. (Russian. Russian summary) **98m:30061**
Matsuzaki, Katsuhiko Bounded and integrable quadratic differentials: hyperbolic and extremal lengths on Riemann surfaces. **98h:30060**
Riera, Gonzalo Basis of quadratic differentials for Riemann surfaces with automorphisms. **98j:30049**
Saito, Yoshimitu *see* **Yamazaki, Seisi; et al.**, **98b:30042**
Tashiro, Yoshiaki *see* **Yamazaki, Seisi; et al.**, **98b:30042**
Yamadera, Terumi *see* **Yamazaki, Seisi; et al.**, **98b:30042**
Yamazaki, Seisi (*with* Ito, Minoru[2]; Saito, Yoshimitu; Yamadera, Terumi; Kubo, Masahiko; Ikeda, Toshikazu; Tashiro, Yoshiaki; Higuchi, Teiichi) Riemann's period matrix of $y^3 = x^5 - 1$. **98b:30042**

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Bernstein, Mira (*with* Sloane, Neil J. A.) Some lattices obtained from Riemann surfaces. (English summary) **98i:52020**
Carroll, Robert Wayne Some kernels on a Riemann surface. (English summary)
Jenkins, James A. On weighted distortion in conformal mapping. II. **98m:30038**
Kawazumi, Nariya Abelian differentials of the third kind and mapping class groups. (Japanese) (*see* **98e:00014**)
Mihaila, Ioana Composition operators on Riemann surfaces. (English summary) **98k:47062**
Natanzon, S. M. Periodic solitons and real algebraic curves. (English summary) (*see* **98g:14002**)
Quine, J. R. Systoles of two extremal Riemann surfaces. (English summary) **98i:11046**
Schmieder, G. (*with* Shiba, Masakazu) Realisierungen des idealen Randes einer Riemannschen Fläche unter konformen Abschließungen. (English summary) [Realizations of the ideal boundary of a Riemann surface under conformal closures] **98j:30048**
Shiba, Masakazu *see* **Schmieder, G.**, **98j:30048**
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Towse, Christopher Weierstrass weights of fixed points of an involution. (English summary) **98i:14033**

30F35 Fuchsian groups and automorphic functions [see also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]

Jing, Pei Dong A note on the norm of the Poincaré series operator. (Chinese. English and Chinese summaries) **98e:30046**
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Krzyż, Jan G. Some remarks on the isomorphism of Fuchsian groups. (English summary) **98g:30071**
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Basmajian, Ara Large parameter spaces of quasiconformally distinct hyperbolic structures. (English summary) **98e:32035**
Chen, Huaihui (*with* Gauthier, Paul M.) Normal functions: L^p estimates. (English summary) **98c:30042**
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González, María J. An estimate on the distortion of the logarithmic capacity. (English summary) **98j:30019**
Kononenko, Alexey Vladimir (*with* Yue, Chengbo) Cohomology and rigidity of Fuchsian groups. (English summary) **98j:20072**
Krzyż, Jan G. Isomorphism of Fuchsian groups and harmonic maps. **98b:30020**
Long, Darren D. (*with* Maclachlan, C.; Reid, Alan W.) Splitting groups of signature $(1; n)$. **98c:20096**
Maclachlan, C. *see* **Long, Darren D.; et al.**, **98c:20096**
Reid, Alan W. *see* **Long, Darren D.; et al.**, **98c:20096**
Riera, Gonzalo Basis of quadratic differentials for Riemann surfaces with automorphisms. **98j:30049**
Schmutz Schaller, Paul The modular torus has maximal length spectrum. **98c:11046**
Shen, Yuliang Extremal quasiconformal mappings compatible with Fuchsian groups. (English summary) **98i:30036**
Singerman, David (*with* Watson, Paul) Weierstrass points on regular maps. (English summary) **98d:30055**
Tukia, Pekka The limit map of a homomorphism of discrete Möbius groups. **98e:57052**
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30F40 Kleinian groups [see also 20H10]

Anderson, James W. (*with* Maskit, Bernard) On the local connectivity of limit set of Kleinian groups. (English summary) **98a:30055**
— The limit set intersection theorem for finitely generated Kleinian groups. **98k:30056**

Basmajian, Ara Selected problems in Kleinian groups and hyperbolic geometry. (English summary) **98g:30072**
Bishop, Christopher J. Minkowski dimension and the Poincaré exponent. **98h:30061**
— (*with* Jones, Peter Wilcox) The law of the iterated logarithm for Kleinian groups. (English summary) **98j:30051**
Brock, Jeffrey F. Iteration of mapping classes on a Bers slice: examples of algebraic and geometric limits of hyperbolic 3-manifolds. (English summary) **98k:30057**
Cao, Chun The chordal norm of discrete Möbius groups in several dimensions. (English summary) **98c:30051**
— (*with* Waterman, P. L.) Conjugacy invariants of Möbius groups. **98k:30058**
Do, Ilyong (*with* Hong, Sungbok) Myrberg-Agard density points and Schottky groups. **98c:30052**
Furusawa, Harushi Commutators and iterated commutators in Kleinian groups. **98k:30059**
Gehring, Frederick (*with* Martin, Gaven J.) Holomorphic motions, Schottky's theorem and an inequality for discrete groups. (English summary) **98c:30053**
— (*with* Martin, Gaven J.) Hyperbolic axes and elliptic fixed points in a Fuchsian group. (English summary) **98m:30062**
— (*with* Martin, Gaven J.) Geodesics in hyperbolic 3-folds. **98d:30056**
Gilman, Jane A discreteness condition for subgroups of PSL(2, **C**). (English summary) **98k:30060**
Hidalgo, Rubén A. Closed Riemann surfaces with dihedral groups of conformal automorphisms. (English summary) **98g:30073**
Hong, Sungbok *see* **Do, Ilyong**, **98c:30052**
Jones, Peter Wilcox *see* **Bishop, Christopher J.**, **98j:30051**
Keen, Linda (*with* Series, Caroline) How to bend pairs of punctured tori. **98m:30063**
Kra, Irwin Kleinian groups; Eichler cohomology and the complex theory. **98j:30052**
Martin, Gaven J. On the geometry of Kleinian groups. **98k:30061**
— *see also* **Gehring, Frederick**, **98c:30053**; **98d:30056** *and* **98m:30062**
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— Structural stability of Kleinian groups. **98a:30056**
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Nai, Bing (*with* Zheng, Shen Zhou) Displacement functions and Jørgensen's inequality in higher-dimensional spaces. (Chinese. English and Chinese summaries) **98c:30054**
Neumann, Walter D. Kleinian groups generated by rotations. (English summary) **98g:30074**
Ohshika, Ken'ichi A convergence theorem for Kleinian groups which are free products. **98j:30054**
Okumura, Yoshihide The lifting problem and a characterization of simple dividing loops on Riemann surfaces. (Japanese. Japanese summary) (*see* **98e:00014**)
Sato, Hiroki Hausdorff dimension of the limit sets of classical Schottky groups. **98k:30062**
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Shirokov, N. A. Approximation on limit compacta of Kleinian groups. (Russian. English and Russian summaries) **98k:30063**
Taniguchi, Masahiko Kleinian groups and the Carathéodory convergence. (Japanese) (*see* **98e:00014**)
Taylor, Edward C.[2] Geometric finiteness and the convergence of Kleinian groups. (English summary) **98k:30064**
Tukia, Pekka A survey of Möbius groups. **98c:30055**
— Conservative action and the horospheric limit set. (English summary) **98i:30057**
Waterman, P. L. *see* **Cao, Chun**, **98k:30058**
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Anderson, James W. (*with* Canary, Richard D.; Culler, Marc; Shalen, Peter B.) Free Kleinian groups and volumes of hyperbolic 3-manifolds. **98c:57012**
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— On Teichmüller spaces of Koebe groups. (English summary) **98i:32028**
— The Bers-Greenberg theorem and the Maskit embedding for Teichmüller spaces. (English summary) **98e:32034**
Bianconi, Ricardo (*with* Gusevskiĭ, N. A.; Klimenko, E. Ya.) Schottky type groups and Kleinian groups acting on S^3 with the limit set a wild Cantor set. (English summary) **98c:57039**
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Borthwick, David (*with* McRae, Alan; Taylor, Edward C.[2]) Quasirigidity of hyperbolic 3-manifolds and scattering theory. **98e:58168**
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— *see also* **Anderson, James W.**; **et al.**, **98c:57012**
Cannon, J. W. (*with* Swenson, E. L.) Recognizing constant curvature discrete groups in dimension 3. (English summary) **98i:57023**
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Culler, Marc *see* **Anderson, James W.**; **et al.**, **98c:57012**
Fang, Ainong (*with* Jiang, Yueping; Fang, Ming[1]) The traces of Clifford matrices and Jørgensen's inequality in $\overline{\mathbf{R}}^n$. (English summary) **98b:30019**
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Jiang, Yueping *see* **Fang, Ainong**; **et al.**, **98b:30019**
Jones, Peter Wilcox *see* **Bishop, Christopher J.**, **98k:22043**
Kamiya, Shigeyasu Parabolic elements of U(1, *n*; **C**). (English summary) **98j:22015**
Kapovich, M. È. On the dynamics of pseudo-Anosov homeomorphisms on representation varieties of surface groups. (English summary) **98k:57019**
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Lyubich, Mikhail (*with* Minsky, Yair N.) Laminations in holomorphic dynamics. **98k:58191**
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McRae, Alan *see* **Borthwick, David**; **et al.**, **98e:58168**
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— Patterson-Sullivan measure and conformally flat metrics. **98g:53072**
Ohshika, Ken'ichi Rigidity and topological conjugates of topologically tame Kleinian groups. (English summary) **98m:57019**
Shalen, Peter B. *see* **Anderson, James W.**; **et al.**, **98c:57012**
Soma, Teruhiko Bounded cohomology and topologically tame Kleinian groups. **98f:57023**
Stratmann, Bernd The Hausdorff dimension of bounded geodesics on geometrically finite manifolds. (English summary) **98d:58106**
— A remark on Myrberg initial data for Kleinian groups. (English summary) **98k:58146**
Swenson, E. L. *see* **Cannon, J. W.**, **98i:57023**
Taylor, Edward C.[2] *see* **Borthwick, David**; **et al.**, **98e:58168**
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Zhang, Chaohui On isomorphisms of Bers fiber spaces. (English summary) **98m:32034**

30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)

Abikoff, William Adapted metrics and Möbius transformations defined over Clifford algebras. (English summary) **98b:30044**
Kim, Seong-A On convex hyperbolic regions. **98h:30062**
Minda, David The density of the hyperbolic metric near an isolated boundary point. (English summary) **98j:30055**
Sugawa, Toshiyuki Uniformly perfect Riemann surfaces and its length spectra. **98h:30063**
Yamashita, Shinji The Poincaré and the spherical densities. (English summary) **98k:30065**

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Bavard, Christophe Systole et invariant d'Hermite. [Systole and Hermite invariant] **98a:11085**
Bogopol'skiĭ, O. V. Infinite commensurable hyperbolic groups are bi-Lipschitz equivalent. (Russian. Russian summary) **98h:57002**
Hardt, Robert M. (*with* Wolf, Michael[1]) Harmonic extensions of quasiconformal maps to hyperbolic space. (English summary) **98i:30032**
Langmeyer, Navah The quasihyperbolic metric, growth, and John domains. (English summary) **98m:30033**
Ma, Wan Cang (*with* Minda, David) Two-point distortion theorems for bounded univalent functions. (English summary) **98i:30011**
Matsuzaki, Katsuhiko Bounded and integrable quadratic differentials: hyperbolic and extremal lengths on Riemann surfaces. **98h:30060**
Minda, David *see* **Ma, Wan Cang**, **98i:30011**
Mugelli, Francesco (*with* Talenti, Giorgio) Sobolev inequalities in 2-dimensional hyperbolic space. (English summary) **98g:46044**
Schmutz Schaller, Paul The modular torus has maximal length spectrum. **98e:11046**
— Extremal Riemann surfaces with a large number of systoles. (English summary) **98c:11064**
Talenti, Giorgio *see* **Mugelli, Francesco**, **98g:46044**
Vasil'ev, A. Yu. Invariant metrics and harmonic functionals on the Teichmüller space. (Russian. Russian summary) **98e:30045**
Wolf, Michael[1] *see* **Hardt, Robert M.**, **98i:30032**

30F50 Klein surfaces

Arés Gastesi, Pablo Some results on Teichmüller spaces of Klein surfaces. **98c:30056**
Bujalance, E. On compact Klein surfaces with a special automorphism group. (English summary) **98f:30041**
— (*with* Costa, Antonio F.) On symmetries of p-hyperelliptic Riemann surfaces. **98f:30042**
Cirre, F. J. Morphisms of Klein surfaces. (English summary) **98j:30056**
Costa, Antonio F. *see* **Porto Fereira da Silva, A. M.**, **98b:30045** *and* **Bujalance, E.**, **98f:30042**
Fernández Arias, Arturo Klein coverings of the closed unit disc. (English summary) **98a:30057**
Natanzon, S. M. Real frames of complex algebraic curves, and Coxeter groups. (Russian) **98j:30057**
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Quine, J. R. Systoles of two extremal Riemann surfaces. (English summary) **98i:11046**

30F60 Teichmüller theory [see also 32G15]

Nakanishi, Toshihiro The distance between horocycles on a punctured surface. (Japanese) (*see* **98e:00014**)
Vasil'ev, A. Yu. Homotopies of curves and mappings, and the Teichmüller metric. (Russian) **98a:30058**

Items with secondary classifications in 30F60

Arés Gastesi, Pablo Some results on Teichmüller spaces of Klein surfaces. **98c:30056**
— On Teichmüller spaces of Koebe groups. (English summary) **98i:32028**
Chiang, Yungyen The quasi-Fuchsian space of four-punctured spheres. **98i:32029**
Earle, Clifford J. (*with* Li, Zhong[1]) Extremal quasiconformal mappings in plane domains. **98j:30014**
Guo, Hui The uniqueness problem for geodesics in infinite-dimensional Teichmüller spaces. (Chinese)
Harada, Tatsunori (*with* Taniguchi, Masahiko) On Teichmüller spaces of complex dynamics by entire functions. (Japanese) (*see* **98h:58002**)

Ivanov, N. V. Automorphism of complexes of curves and of Teichmüller spaces. (English summary) **98j:57023**
Jing, Pei Dong A note on the norm of the Poincaré series operator. (Chinese. English and Chinese summaries) **98e:30046**
Keum, Jong Hae (*with* Lee, Man Keun) Teichmüller extremal mappings on the unit disk. (English summary) **98b:30025**
Krushkal, Samuel L. On Grunsky conditions, Fredholm eigenvalues and asymptotically conformal curves. (English summary) **98e:30021**
— Quasireflections with respect to analytic curves. (English summary) **98m:30010**
— (*with* Kühnau, Reiner) A quasiconformal dynamic property of the disk. (English summary) **98m:30029**
Krzyż, Jan G. Isomorphism of Fuchsian groups and harmonic maps. **98b:30020**
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Lakic, Nikola The minimal norm property for quadratic differentials in the disk. **98d:30027**
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Li, Zhong[1] *see* **Earle, Clifford J., 98j:30014**
Liu, Li Xin A conjecture of the length spectrum of Riemann surface. **98a:32022**
— The boundary of extremal length of a Teichmüller space. (Chinese. Chinese summary) **98g:32031**
Luo, Feng[1] Geodesic length functions and Teichmüller spaces. (English summary) **98a:32023**
McMullen, Curtis T. Complex earthquakes and Teichmüller theory. (English summary) **98i:32030**
Nag, Subhashis Diff(S^1), Teichmüller space and period matrices: canonical mappings via string theory. **98b:32013**
Okumura, Yoshihide The lifting problem and a characterization of simple dividing loops on Riemann surfaces. (Japanese. Japanese summary) (*see* **98e:00014**)
Pekonen, Osmo The interface of Teichmüller theory and string theory. **98b:32014**
Pinchbeck, David J. Irrational rotations. (English summary) **98k:20084**
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Vasil'ev, A. Yu. Invariant metrics and harmonic functionals on the Teichmüller space. (Russian. Russian summary) **98e:30045**

30F99 None of the above, but in this section

Brooks, Robert Wolfe Some relations between graph theory and Riemann surfaces. **98h:30064**
Schmidt, Thomas A. (*with* Sheingorn, Mark) Riemann surfaces have Hall rays at each cusp. **98e:30047**
Sheingorn, Mark *see* **Schmidt, Thomas A., 98e:30047**

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Alber, Mark S. (*with* Luther, Gregory G.; Marsden, Jerrold E.) Energy dependent Schrödinger operators and complex Hamiltonian systems on Riemann surfaces. (English summary) **98a:58077**
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Luther, Gregory G. *see* **Alber, Mark S.; et al., 98a:58077**
Lyzzaik, Abdallah Covering theorems for open continuous mappings having two valences between orientable surfaces. (English summary) **98h:57005**
Ma, Ji Gang[3] (*with* He, Yu Zan) Bers-Orlicz spaces on the product Riemann surface. (English summary) **98d:46035**
Marsden, Jerrold E. *see* **Alber, Mark S.; et al., 98a:58077**
Schmutz Schaller, Paul Arithmetic groups and the length spectrum of Riemann surfaces. **98a:11068**
Simha, R. R. (*with* Srinivas, Vasudevan) Riemann surfaces. **98j:14037**
Srinivas, Vasudevan *see* **Simha, R. R., 98j:14037**

30Gxx Generalized function theory

30G06 Non-Archimedean function theory [see also 12J25]; nonstandard function theory [see also 03H05]

Boutabaa, Abdelbaki (*with* Escassut, Alain) Uniqueness of p-adic meromorphic functions. (English and French summaries) **98m:30064**
Escassut, Alain *see* **Boutabaa, Abdelbaki, 98m:30064**
Sreenivasulu, V. A characterization of non-Archimedean entire functions of bounded index. (English summary) **98b:30046**

Items with secondary classifications in 30G06

Boutabaa, Abdelbaki Décomposition de fonctions méromorphes p-adiques. [Decomposition of p-adic meromorphic functions] **98k:30051**
Diarra, Bertin (*with* Escassut, Alain; Sarmant-Durix, Marie-Claude) p-adic characters on the restricted power series. (English summary) **98i:26029**
Endo, Mikihiko Analytic properties of functions represented by p-adic integration. **98k:11175**
Escassut, Alain *see* **Diarra, Bertin; et al., 98i:26029**
Sarmant-Durix, Marie-Claude Caractères p-adiques d'un groupe de produits méromorphes. [p-adic characters of a group of meromorphic products] **98i:11102**
— *see also* **Diarra, Bertin; et al., 98i:26029**

30G12 Finely holomorphic functions and topological function theory

Pyrih, Pavel An example of packing related small sets. (English summary) **98a:30059**

Items with secondary classifications in 30G12

Lyzzaik, Abdallah Covering theorems for open continuous mappings having two valences between orientable surfaces. (English summary) **98h:57005**

30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p-analytic, etc.)

(Begehr, Heinrich) *see* **Bliev, N., 98g:30075**
Bliev, N. ★ Generalized analytic functions in fractional spaces. **98g:30075**
Dimitrovski, Dragan (*with* Rajović, Miloje; Stoiljković, Rade) The generalization of the I. N. Vecua equation with the analytic coefficients in z, $\bar{z}$. (English summary)
Ilievski, Borko On a subclass of generalized analytic functions of the fourth class. (English summary) (*see* **98h:00033**)
Łysik, Grzegorz (*with* Ziemian, Bogdan) Generalized analytic functions with applications. (Polish) **98c:30057**
(Radok, Jens Rainer Maria) *see* **Bliev, N., 98g:30075**
Rajović, Miloje *see* **Dimitrovski, Dragan; et al.**
Renelt, Heinrich Mean value properties of solutions of Cauchy-Riemann systems. (English summary) **98g:30076**
Stoiljković, Rade *see* **Dimitrovski, Dragan; et al.**
Yüksel, Uğur Solution of Cauchy-Kowalewski problems in a subspace of pseudoholomorphic functions in the sense of L. Bers. (English summary) **98a:30060**
Ziemian, Bogdan *see* **Łysik, Grzegorz, 98c:30057**

Items with secondary classifications in 30G20

Begehr, Heinrich (*with* Hile, Gerald N.) Higher order Cauchy Pompeiu operators. **98m:35046**
Dimitrovski, Dragan *see* **Rajović, Miloje; et al.**
Hile, Gerald N. *see* **Begehr, Heinrich, 98m:35046**
Mandzhavidze, G. F. Boundary value problems of the theory of generalized analytic vectors. (English summary) **98b:30040**
Rajović, Miloje (*with* Dimitrovski, Dragan; Stojiljković, Rade) Elemental solution of Vecua equation with analytic coefficients on z, $\bar{z}$. (English summary)
— (*with* Dimitrovski, Dragan; Stojiljković, Rade) Properties of the general solution of the homogeneous I. N. Vecua equation with analytic coefficients in dependence on z and $\bar{z}$. (English summary)
Stojiljković, Rade *see* **Rajović, Miloje; et al.**
Tutschke, W. (*with* Vasudeva, Harkrishan L.) A variational principle for generalized analytic functions. (English summary) **98h:35056**
Vasudeva, Harkrishan L. *see* **Tutschke, W., 98h:35056**
Yang, Shuo Generalized Riemann-Hilbert-Poincaré boundary value problems for bianalytic functions and complex harmonic functions. (Chinese. English and Chinese summaries)
Zhang, Yi Lian Carleman interior and exterior boundary value problems for bianalytic functions. (Chinese. English and Chinese summaries)

30G25 Discrete analytic functions

Khan, Mumtaz Ahmad On an algebraic study of a class of discrete analytic functions. **98h:30065**
Schramm, Oded Circle patterns with the combinatorics of the square grid. **98a:30061**

Items with secondary classifications in 30G25

Dubejko, Tomasz Circle packings in the unit disc. (English summary) **98e:52019**

30G30 Other generalizations of analytic functions (including abstract-valued functions)

Arbuzov, È. V. (*with* Bukhgeĭm, A. L.) The Carleman formula for A-analytic functions. (Russian) **98d:30057**
Balk, M. B. Polyanalytic functions and their generalizations [MR 93f:30050]. (*see* **98d:30002**)
Bukhgeĭm, A. L. *see* **Arbuzov, È. V., 98d:30057**
Kazantsev, S. G. Integral formulas of Cauchy type for generalized A-analytic functions. (Russian) **98d:30058**
Marinov, Marin Stefanov Integral formulae in the two-dimensional quaternionical analysis. (English summary) **98h:30066**

Items with secondary classifications in 30G30

Blasco, Oscar Vector-valued analytic functions of bounded mean oscillation and geometry of Banach spaces. **98h:46034**
Rodman, Leiba Matrix functions. **98a:15045**
Traore, Abou Sur la factorisation des fonctions polyanalytiques de p variables ($p \geq 1$). (French summary) [Factorization of p-variate polyanalytic functions ($p \geq 1$)] **98b:32005**

30G35 Functions of hypercomplex variables and generalized variables

Baylis, William E. (*with* Jancewicz, Bernard) Clifford-valued functions in Cl_3. (English summary) **98h:30067**
Bernstein, Swanhild Fundamental solutions for Dirac-type operators. (English summary) **98a:30062**
Casanova, Gaston Sur les logarithmes dans les algèbres de Clifford de $\mathbf{R}(n,0)$. (English summary) [On logarithms in Clifford algebras in $\mathbf{R}(n,0)$] **98d:30059**
Davenport, Clyde M. A commutative hypercomplex algebra with associated function theory. (English summary) (*see* **98a:30003**)
Edmonds, James D., Jr. Extended Dirac factorization: "multi-mass" special cases in Clifford form. (English summary) **98i:30058**

Fabiano, A. Boundary values of monogenic functions. **98a:30063**
— An introduction to the microlocal analysis of hypercomplex functions. (English and Italian summaries) **98j:30058**
Gal, Sorin G. On the sufficient conditions of monogeneity for functions of complex-type variable. (English summary) **98d:30060**
Gürlebeck, Klaus (*with* Sprößig, Wolfgang) Clifford-analysis and elliptic boundary value problems. (English summary) **98h:30068**
— (*with* Kähler, Uwe; Ryan, John; Sprößig, Wolfgang) Clifford analysis over unbounded domains. (English summary) **98h:30069**
Huang, Sha (*with* Qiao, Yu Ying) A new hypercomplex structure and Clifford analysis. (Chinese. English and Chinese summaries) **98a:30064**
— Nonlinear boundary value problem for biregular functions in Clifford analysis. (English summary) **98b:30047**
Jancewicz, Bernard *see* **Baylis, William E., 98h:30067**
Kähler, Uwe *see* **Gürlebeck, Klaus; et al., 98h:30069**
Kippig, Frank A complete boundary collocation system. (English summary) **98k:30066**
Laville, Guy (*with* Ramadanov, Ivan-Pierre) Stone-Weierstrass theorem. (English summary) **98f:30043**
Pedersen, Paul S. Cauchy's integral theorem on a finitely generated, real, commutative, and associative algebra. (English summary) **98k:30067**
Qiao, Yu Ying *see* **Huang, Sha, 98a:30064**
Ramadanov, Ivan-Pierre *see* **Laville, Guy, 98f:30043**
Ramírez de Arellano, Enrique (*with* Vasilevskiĭ, N. L.; Shapiro, M. V.) Hurwitz analysis: basic concepts and connection with Clifford analysis. **98a:30065**
— *see also* **Vasilevskiĭ, N. L.; et al., 98b:30049**
Roşculeţ, M. N. Dérivées aréolaires sur des algèbres associatives et commutatives. V. Dérivées partielles aréolaires sur une algèbre à base infinie. (English, French and Romanian summaries) [Areolar derivatives on associative and commutative algebras. V. Areolar partial derivatives on an algebra with infinite basis]
Ryan, John The conformal covariance of Huygens' principle-type integral formulae in Clifford analysis. (English summary) **98h:30070**
— Clifford analysis on spheres and hyperbolae. (English summary) **98m:30065**
— *see also* **Gürlebeck, Klaus; et al., 98h:30069**
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— *see also* **Ramírez de Arellano, Enrique; et al., 98a:30065** *and* **Vasilevskiĭ, N. L.; et al., 98b:30049**
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Solgin, A. M. Complex conjugation—relative to what? (English summary) (*see* **98a:30003**)
Sommen, Franciscus C. Defining a q-deformed version of Clifford analysis. (English summary)
— The problem of defining abstract bivectors. (English summary) **98c:30058**
Sprößig, Wolfgang *see* **Gürlebeck, Klaus, 98h:30068** *and* **98h:30069**
Tovar, Luis Manuel *see* **Shapiro, M. V., 98b:30048**
Vasilevskiĭ, N. L. (*with* Ramírez de Arellano, Enrique; Shapiro, M. V.) The classical Hurwitz problem and the associated theory of functions. (Russian) **98b:30049**
— *see also* **Ramírez de Arellano, Enrique; et al., 98a:30065**
Zeng, Yue Sheng Riemann boundary value problems for hyperanalytic functions on closed fractal curves. (Chinese. English and Chinese summaries) **98c:30059**
Zhou, Dong Guo Envelope of hyperholomorphy and hyperholomorphic convexity. (English summary) **98m:30066**

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Abikoff, William Adapted metrics and Möbius transformations defined over Clifford algebras. (English summary) **98b:30044**
(Abłamowicz, Rafał) *see* **Clifford algebras with numeric and symbolic computations, 98a:30003**
Cnops, Jan Vahlen matrices for non-definite metrics. (English summary) (*see* **98a:30003**)
— Hurwitz pairs and Clifford valued inner products. (English summary) **98e:15030**
— Reproducing kernels of spaces of vector valued monogenics. (English summary) **98b:46032**
Gürlebeck, Klaus (*with* Kähler, Uwe) On a boundary value problem of the biharmonic equation. (English summary) **98f:35037**
— *see also* **Sprößig, Wolfgang. 98k:76114**
Kähler, Uwe *see* **Gürlebeck, Klaus, 98f:35037**
Kisil, Vladimir V. Möbius transformations and monogenic functional calculus. (English summary) **98a:47018**
— (*with* Ramírez de Arellano, Enrique) A functional model for quantum mechanics: unbounded operators. (English summary) **98f:47028**
Krivskiĭ, I. Yu. *see* **Simulik, V. M., 98k:81321**
Królikowski, Wiesław Pairs of Clifford algebras of the Hurwitz type. (English summary) **98i:15032**
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Marinov, Marin Stefanov Integral formulae in the two-dimensional quaternionical analysis. (English summary) **98h:30066**
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Porter, R. Michael Quaternionic linear and quadratic equations. (English summary) **98b:15030**
Qiao, Yu Ying The oblique derivative boundary value problem for generalized regular quaternion-valued functions. (Chinese. English and Chinese summaries)
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Roberts, D. E. Vector continued fraction algorithms. (*see* **98a:30003**)
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Shapiro, M. V. (*with* Vasilevskiĭ, N. L.) On the Bergman kernel function in hyperholomorphic analysis. (English summary) **98a:32036**
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Sommen, Franciscus C. Functions on the spingroup. (English summary) **98g:15044**
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Vasilevskiĭ, N. L. *see* **Shapiro, M. V., 98a:32036**
Wada, Masaaki A generalization of power series to real several dimensions. **98m:15052**
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30G99 None of the above, but in this section

Majernik, V. Multicomponent number systems. (English summary) **98m:30067**

30H05 Spaces and algebras of analytic functions [see also 32E25, 46Exx, 46J15]

Andersson, Mats Erik Integral means on Bergman spaces. (English summary) **98f:30044**
Borichev, A. A. (*with* Hedenmalm, Håkan) Harmonic functions of maximal growth: invertibility and cyclicity in Bergman spaces. (English summary) **98a:30066**
Hedenmalm, Håkan *see* **Borichev, A. A., 98a:30066**
Melikhov, S. N. (*with* Momm, Siegfried) On a linear continuous right inverse for a convolution operator on spaces of germs of analytic functions on convex compacta in **C**. (Russian) **98k:30068**
Meštrović, Romeo (*with* Pavićević, Žarko) Remarks on some classes of holomorphic functions. (English summary) **98h:30071**
— A characterization of a subclass of the Smirnov class. (English summary) **98h:30072**
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Aleman, Alexandru (*with* Richter, Stefan; Sundberg, Carl) Beurling's theorem for the Bergman space. **98a:46034**
Arora, Subhash C. (*with* Mukherjee, M.; Panigrahi, Anupama) Weighted composition operators on the space $S^p(D)$. (English summary) **98b:47039**
Aulaskari, Rauno (*with* Lappan, Peter; Xiao, Jie[1]; Zhao, Ruhan) On α-Bloch spaces and multipliers of Dirichlet spaces. **98e:30036**
Diller, Jeffrey Limits on an extension of Carleson's $\overline{\partial}$-theorem. (English summary) **98a:30053**
Gorkin, Pamela (*with* Mortini, Raymond) Alling's conjecture on closed prime ideals in H^∞. (English summary) **98d:46053**
Hallenbeck, David J. (*with* Samotij, K.) The growth of derivatives of multipliers of Cauchy transforms of logarithmic potentials. (English summary) **98a:30046**
Horowitz, C. (*with* Pinchuk, B.) A survey of recent results in $A^{-\alpha}$ and $A^{-\infty}$. **98j:46021**
— (*with* Korenblum, B.; Pinchuk, B.) Sampling sequences for $A^{-\infty}$. **98d:46026**
Jevtić, Miroljub (*with* Massaneda, Xavier; Thomas, Pascal J.) Interpolating sequences for weighted Bergman spaces of the ball. **98c:32007**
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Lappan, Peter *see* **Aulaskari, Rauno; et al., 98e:30036**
MacCluer, Barbara D. *see* **Jovović, Mirjana, 98d:47067**
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Mattila, Pälvi (*with* Saksman, Eero; Taskinen, Jari) Weighted spaces of harmonic and holomorphic functions: sequence space representations and projective descriptions. (English summary) **98c:46048**
— Weighted spaces of holomorphic functions on finitely connected domains. **98k:46037**
Mortini, Raymond *see* **Gorkin, Pamela, 98d:46053**
Mukherjee, M. *see* **Arora, Subhash C.; et al., 98b:47039**
Nah, Young-Chae Multipliers on the Dirichlet space $D(\Omega)$. (English summary) **98f:47040**
Nakazi, Takahiko (*with* Yamada, Masahiro) Riesz's functions in weighted Hardy and Bergman spaces. (English summary) **98c:46049**
Napalkov, V. V., Jr. (*with* Shagapov, I. A.) On closed ideals in some algebras of entire periodic functions. (Russian) **98j:46049**
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Render, Hermann Hadamard's multiplication theorem—recent developments. **98m:46065**
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Wang, James Li-Ming (*with* Wu, Zhijian) Images of Hankel operators. (English summary) **98m:47037**
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31–XX Potential theory {For probabilistic potential theory, see 60J45.}

31–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 31–01

Andersson, Mats E. L. ★ Topics in complex analysis. (English summary) **98a:30001**
Chen, Ching Shyang *see* **Golberg, M. A., 98c:45002**
Golberg, M. A. (*with* Chen, Ching Shyang) ★ Discrete projection methods for integral equations. (English summary) **98c:45002**
Lieb, Elliott H. (*with* Loss, Michael) ★ Analysis. (English summary) **98b:00004**
Loss, Michael *see* **Lieb, Elliott H., 98b:00004**

31–02 Research exposition (monographs, survey articles)

Mizuta, Yoshihiro ★ Potential theory in Euclidean spaces. **98e:31001**

Items with secondary classifications in 31–02

Bendikov, A. D. ★ Potential theory on infinite-dimensional abelian groups. **98i:31007**
(Regher, Carol) *see* **Bendikov, A. D., 98i:31007**

31–06 Proceedings, conferences, collections, etc.

(Korányi, Adam) *see* **Harmonic functions on trees and buildings, 98b:31001**

Items listed otherwise than by author

Contemporary Mathematics ★ Harmonic functions on trees and buildings. **98b:31001**
Harmonic functions on trees and buildings ★ Harmonic functions on trees and buildings. **98b:31001**
New York ★ Harmonic functions on trees and buildings. **98b:31001**
Workshop:
Harmonic Functions on Graphs ★ Harmonic functions on trees and buildings. **98b:31001**

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

Burckel, R. B. Three secrets about harmonic functions. **98b:31002**
Choi, Changsun An inequality of subharmonic functions. (English summary) **98m:31001**
Dzhrbashyan, A. M. On some classes of subharmonic functions. (Russian. English and Russian summaries) **98f:31001**
Fryntov, A. E. (*with* Rossi, John; Weitsman, Allen) On the longest arc relation for δ-subharmonic functions. (English summary) **98e:31002**
Girnyk, M. A. Approximation of functions subharmonic in a disk by the logarithm of the modulus of an analytic function. (English summary) **98a:31001**
Grishin, A. F. Continuity and asymptotic continuity of subharmonic functions. I. (Russian. English, Russian and Ukrainian summaries)
— Continuity and asymptotic continuity of subharmonic functions. II. (Russian. English, Russian and Ukrainian summaries)
Haruki, Hiroshi (*with* Rassias, Themistocles M.) New generalizations of the Poisson kernel. (English summary) **98a:31002**
Mohammed, Seid Asymptotic behaviour of functions extremal for Paley inequality. (Italian summary) **98j:31001**
Partyka, Dariusz On approximation of complex-valued harmonic functions in Jordan domains. (English summary) **98i:31001**
Pavlović, Miroslav On the convolution of harmonic functions and harmonic polynomials. (English summary) **98h:31001**
Rashkovskiĭ, A. Yu. (*with* Ronkin, L. I.) Extension and approximation of functions subharmonic in a half plane. Impossibility of extension of plurisubharmonic functions. (English summary) **98f:31002**
Rassias, Themistocles M. *see* **Haruki, Hiroshi, 98a:31002**
Ronkin, L. I. *see* **Rashkovskiĭ, A. Yu., 98f:31002**
Rossi, John *see* **Fryntov, A. E.; et al., 98e:31002**
Siciak, Józef Wiener's type regularity criteria on the complex plane. (English summary) **98f:31003**
Weitsman, Allen *see* **Fryntov, A. E.; et al., 98e:31002**

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Aikawa, Hiroaki (*with* Essén, Matts) ★ Potential theory—selected topics. **98f:31005**
— (*with* Murata, Minoru) Generalized Cranston-McConnell inequalities and Martin boundaries of unbounded domains. (English summary) **98f:31016**
Amoroso, Francesco (*with* Mignotte, Maurice) On the distribution of the roots of polynomials. (English and French summaries) **98h:11101**
Azarin, Vladimir On the Valiron-Titchmarsh theorem and limit sets of entire functions. **98k:30037**
Balogh, Zoltan M. (*with* Popovici, Irina; Vol'berg, A. L.) Conformally maximal polynomial-like dynamics and invariant harmonic measure. (English summary) **98k:58189**
Bartholdi, Laurent (*with* Cantat, Serge; Ceccherini-Silberstein, Tullio G.; de la Harpe, Pierre) Estimates for simple random walks on fundamental groups of surfaces. (English summary) **98d:60133a**
Cantat, Serge *see* **Bartholdi, Laurent; et al., 98d:60133a**
Ceccherini-Silberstein, Tullio G. *see* **Bartholdi, Laurent; et al., 98d:60133a**
Essén, Matts *see* **Aikawa, Hiroaki, 98f:31005**
de la Harpe, Pierre *see* **Bartholdi, Laurent; et al., 98d:60133a**
Lin, Xing Duan (*with* Lou, Zeng Jian) Harmonic mappings and their associated conformal mappings. (Chinese. English and Chinese summaries)
Lou, Zeng Jian *see* **Lin, Xing Duan**
Mignotte, Maurice *see* **Amoroso, Francesco, 98h:11101**
Murata, Minoru *see* **Aikawa, Hiroaki, 98f:31016**
Nyström, Kaj Integrability of Green potentials in fractal domains. (English summary) **98f:31008**
Popovici, Irina *see* **Balogh, Zoltan M.; et al., 98k:58189**
Solynin, A. Yu. Polarization and functional inequalities. (Russian. Russian summary) **98e:30001a**
— Errata: "Polarization and functional inequalities". (Russian) **98e:30001b**
Vol'berg, A. L. *see* **Balogh, Zoltan M.; et al., 98k:58189**
Wang, Qi Shen Construction space harmonic functions in polynomial form and spherical functions by complex-functional. (Chinese. English and Chinese summaries)
Weitsman, Allen On the dilatation of univalent planar harmonic mappings. (English summary) **98d:30030**
Yang, Shanshuang Harmonic and extremal quasiconformal extensions. (English summary) **98c:30025**
Żuk, Andrzej A remark on the norm of a random walk on surface groups. (English summary) **98d:60133b**

31A10 Integral representations, integral operators, integral equations methods

Schieber, D. Some mathematical identities derived from the solution of an elementary potential problem.

Items with secondary classifications in 31A10

Dzhrbashyan, A. M. On some classes of subharmonic functions. (Russian. English and Russian summaries) **98f:31001**
Haruki, Hiroshi (*with* Rassias, Themistocles M.) New generalizations of the Poisson kernel. (English summary) **98a:31002**
Mohammed, Seid Asymptotic behaviour of functions extremal for Paley inequality. (Italian summary) **98j:31001**
Murakami, Atsushi (*with* Yamasaki, Maretsugu) An introduction of Kuramochi boundary of an infinite network. (English summary) **98m:31011**
Rassias, Themistocles M. *see* **Haruki, Hiroshi, 98a:31002**
Yamasaki, Maretsugu *see* **Murakami, Atsushi, 98m:31011**

31A15 Potentials and capacity, harmonic measure, extremal length [see also 30C85]

Di Biase, Fausto (*with* Fischer, Bert; Urbanke, Rüdiger L.) Twist points of the von Koch snowflake. (English summary) **98k:31001**
Duren, Peter (*with* Pfaltzgraff, John A.; Thurman, Robert E.) Physical interpretation and further properties of Robin capacity. (English summary) **98k:31002**
Fischer, Bert *see* **Di Biase, Fausto; et al., 98k:31001**
Pfaltzgraff, John A. *see* **Duren, Peter; et al., 98k:31002**
Siciak, Józef Wiener's type sufficient conditions in $\mathbb{C}^N$. (English summary) **98d:31001**
Srivastava, G. S. On the growth and approximation of generalized axisymmetric potentials. (English summary) **98a:31003**
Thurman, Robert E. Bridged extremal distance and maximal capacity. (English summary) **98g:31001**
— *see also* **Duren, Peter; et al., 98k:31002**
Urbanke, Rüdiger L. *see* **Di Biase, Fausto; et al., 98k:31001**

Items with secondary classifications in 31A15

Betsakos, Dimitrios On certain harmonic measures on the unit disk. **98f:30025**
Bishop, Christopher J. (*with* Jones, Peter Wilcox) The law of the iterated logarithm for Kleinian groups. (English summary) **98j:30051**
Hunt, Brian R. (*with* Kaloshin, Vadim Yu.) How projections affect the dimension spectrum of fractal measures. (English summary) **98k:28010**
Jenkins, James A. On n-fold symmetrization. **98c:30030**
Jones, Peter Wilcox *see* **Bishop, Christopher J., 98j:30051**
Kaloshin, Vadim Yu. *see* **Hunt, Brian R., 98k:28010**
Kenig, Carlos E. (*with* Toro, Tatiana) Harmonic measure on locally flat domains. **98k:31010**
Korevaar, Jacob Electrostatic fields due to distributions of electrons. **98k:78020**
Marshall, Donald E. (*with* Sundberg, Carl) Harmonic measure of curves in the disk. (English summary) **98d:30036**
Pritsker, I. E. (*with* Varga, Richard S.) Weighted polynomial approximation in the complex plane. (English summary) **98c:30048**
Pyrih, Pavel An example of packing related small sets. (English summary) **98a:30059**
Siciak, Józef Wiener's type regularity criteria on the complex plane. (English summary) **98f:31003**
Solynin, A. Yu. Extremal configurations in some problems on capacity and harmonic measure. (Russian. Russian summary) **98c:30031**
Sundberg, Carl *see* **Marshall, Donald E., 98d:30036**
Toro, Tatiana *see* **Kenig, Carlos E., 98k:31010**
Varga, Richard S. *see* **Pritsker, I. E., 98c:30048**

31A20 Boundary behavior (theorems of Fatou type, etc.)

Di Biase, Fausto Exotic convergence in theorems of Fatou type. (*see* **98b:31001**)
Sjögren, Peter Approach regions for the square root of the Poisson kernel and bounded functions. (English summary) **98h:31002**
Topuriya, S. B. Boundary properties of the derivatives of the Poisson integral in a half-space and the representation of a function of two variables. (Russian)

Items with secondary classifications in 31A20

Coornaert, Michel (*with* Papadopoulos, Athanase) A Fatou-type theorem for functions associated with conformal densities on the boundary of a metric tree. **98e:31011**

Dont, Miroslav Fourier problem with bounded Baire data. (English summary) **98m:31002**
— (*with* Dontová, Eva) A numerical solution of the Dirichlet problem on some special doubly connected regions. (English summary) **98i:65108**
Dontová, Eva *see* **Dont, Miroslav, 98i:65108**
Gembars'ka, S. B. Tangential boundary values of the Poisson biharmonic integral in a disk. (Ukrainian. English and Ukrainian summaries) **98i:35040**
Papadopoulos, Athanase *see* **Coornaert, Michel, 98e:31011**
Siciak, Józef Wiener's type sufficient conditions in $\mathbf{C}^N$. (English summary) **98d:31001**
Xiao, Jie[1] Some properties and characterizations of a-normal functions. (English summary) **98d:30023**

31A25 Boundary value and inverse problems

Dont, Miroslav Fourier problem with bounded Baire data. (English summary) **98m:31002**
Freeden, Willi (*with* Schneider, Frank) Wavelet approximations on closed surfaces and their application to boundary-value problems of potential theory. (English summary) **98j:31002**
Schneider, Frank *see* **Freeden, Willi, 98j:31002**
Shiga, Hiroshige Quasiconformal mappings and potentials. (English summary) **98c:31001**

Items with secondary classifications in 31A25

Cherednichenko, V. G. ★ Inverse logarithmic potential problem. **98g:35211**
Kang, Hyeonbae (*with* Seo, Jin Keun; Sheen, Dongwoo) The inverse conductivity problem with one measurement: stability and estimation of size. (English summary) **98k:86021**
Seo, Jin Keun *see* **Kang, Hyeonbae; et al., 98k:86021**
Sheen, Dongwoo *see* **Kang, Hyeonbae; et al., 98k:86021**
Siciak, Józef Wiener's type regularity criteria on the complex plane. (English summary) **98f:31003**
Verchota, G. C. (*with* Vogel, A. L.) Nonsymmetric systems on nonsmooth planar domains. (English summary) **98c:35040**
Vogel, A. L. *see* **Verchota, G. C., 98c:35040**

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

Rao, N. V. A note on Tolstov's theorem on harmonic functions in the plane. (English summary) **98f:31004**

Items with secondary classifications in 31A30

Constanda, Christian On the Dirichlet problem for the two-dimensional biharmonic equation. (English summary) **98g:35057**
Engliš, Miroslav A Loewner-type lemma for weighted biharmonic operators. (English summary) **98e:35055**
Mikhailov, V. P. On the existence of limit values of solutions of the polyharmonic equation on the boundary of the domain. (Russian. Russian summary) **98e:35056**

31A99 None of the above, but in this section

Hervé, M. *see* **Hervé, R. M., 98g:31002**
Hervé, R. M. (*with* Hervé, M.) Quelques propriétés des solutions de l'équation de Ginzburg-Landau sur un ouvert de $\mathbf{R}^2$. (English summary) [Some properties of the solutions of the Ginzburg-Landau equation on an open set in $\mathbf{R}^2$] **98g:31002**
Srivastava, G. S. Approximation and growth of generalized axisymmetric potentials. (English summary) **98h:31003**

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Berenstein, Carlos A. (*with* Khavinson, Dmitry) Do solid tori have the Pompeiu property?
Khavinson, Dmitry *see* **Berenstein, Carlos A.**
Pruss, Alexander R. One-dimensional random walks, decreasing rearrangements and discrete Steiner symmetrization. (English and French summaries) **98k:60119**
Sjögren, Peter Approach regions for the square root of the Poisson kernel and bounded functions. (English summary) **98h:31002**
Srivastava, G. S. On the growth and polynomial approximation of generalized biaxisymmetric potentials. (English summary) **98j:41018**

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

Adams, David R. Potential and capacity before and after Wiener. **98k:31003**
Adolfsson, Vilhelm (*with* Escauriaza, Luis) $C^{1,\alpha}$ domains and unique continuation at the boundary. (English summary) **98m:31003**
Ahner, John F. (*with* Dyakin, V. V.; Raevskiĭ, V. Ya.; Ritter, Stefan) On the spectral properties of operators in harmonic potential theory. (Russian. Russian summary) **98e:31003**
Aikawa, Hiroaki (*with* Essén, Matts) ★ Potential theory—selected topics. **98f:31005**
Aldred, M. P. (*with* Armitage, David H.) Bounds for the terms in a harmonic polynomial expansion. **98m:31004**
Al-Gwaiz, M. A. *see* **Anandam, V., 98h:31004**
Anandam, V. (*with* Al-Gwaiz, M. A.) Global representation of harmonic and biharmonic functions. (English summary) **98h:31004**
Armitage, David H. *see* **Aldred, M. P., 98m:31004**
Báez-Duarte, Luis (*with* Cámera, G. A.) Horizontal growth of harmonic functions. (English summary) **98j:31003**
Bonilla, A. (*with* Pérez-González, Fernando[2]; Trujillo-González, R.) Mergelyan sets for certain classes of harmonic functions. (English summary) **98b:31003**
Boukricha, Abderrahman Classe de Kato et équation de Schrödinger généralisée avec singularité isolée. [Kato class and generalized Schrödinger equation with isolated singularity] **98a:31004**
Cámera, G. A. *see* **Báez-Duarte, Luis, 98j:31003**
Choi, Changsun A weak-type inequality of subharmonic functions. (English summary) **98f:31006**
Cole, B. J. (*with* Ransford, Thomas) Subharmonicity without upper semicontinuity. (English summary) **98h:31005**
Dyakin, V. V. *see* **Ahner, John F.; et al., 98e:31003**
Escauriaza, Luis *see* **Adolfsson, Vilhelm, 98m:31003**
Essén, Matts *see* **Aikawa, Hiroaki, 98f:31005**
Gardiner, Stephen J. Uniform harmonic approximation with continuous extension to the boundary. (English summary) **98e:31004**
— Decomposition of approximable harmonic functions. **98e:31005**
— Mergelyan pairs for harmonic functions. (English summary) **98k:31004**
Hansen, Wolfhard (*with* Netuka, Ivan) Successive averages and harmonic functions. **98h:31006**
Iwasaki, Katsunori Regular simplices, symmetric polynomials and the mean value property. (English summary) **98i:31002**
Lanzara, Flavia Optimal L^2 estimate for harmonic functions. (English and Italian summaries) **98k:31005**
Lebedeva, A. A. A general variant of Kreĭn's theorem for separately subharmonic functions. (Russian) **98c:31002**
Miyamoto, Ikuko Harmonic functions in a cylinder which vanish on the boundary. **98c:31003**
Netuka, Ivan *see* **Hansen, Wolfhard, 98h:31006**
Novitskiĭ, M. V. Completely L-superharmonic functions associated with the sequence $\langle \lambda_n \rangle$. (Russian) (*see* **98d:00009**)
Pérez-González, Fernando[2] *see* **Bonilla, A.; et al., 98b:31003**
Poletsky, Evgeny A. Approximation by harmonic functions. (English summary) **98k:31006**
Raevskiĭ, V. Ya. *see* **Ahner, John F.; et al., 98e:31003**
Ransford, Thomas *see* **Cole, B. J., 98h:31005**
Ritter, Stefan *see* **Ahner, John F.; et al., 98e:31003**
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Watanabe, Hisako Layer potentials for a bounded domain with fractal boundary. (English summary) **98g:31003**
Yi, Heungsu Harmonic little Bloch functions on half-spaces. (English summary) **98m:31005**
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Aizenberg, L. A. (*with* Berenstein, Carlos A.; Wertheim, L.) Mean-value characterization of pluriharmonic and separately harmonic functions. (English summary) **98i:32016**
Armitage, David H. (*with* Gardiner, Stephen J.; Haußmann, Werner; Rogge, Lothar) Characterization of best harmonic and superharmonic L^1-approximants. **98h:41023**
Berenstein, Carlos A. *see* **Aizenberg, L. A.; et al., 98i:32016**
Colding, Tobias H. (*with* Minicozzi, William P., II) Harmonic functions on manifolds. **98m:53052**
Gardiner, Stephen J. *see* **Armitage, David H.; et al., 98h:41023**
Gustafsson, Björn (*with* Khavinson, Dmitry) On annihilators of harmonic vector fields. (English and Russian summaries) **98f:58010**
Haußmann, Werner *see* **Armitage, David H.; et al., 98h:41023**
Kenig, Carlos E. (*with* Toro, Tatiana) Harmonic measure on locally flat domains. **98k:31010**
Khavinson, Dmitry *see* **Gustafsson, Björn, 98f:58010**
Lindqvist, Peter (*with* Manfredi, Juan) Note on ∞-superharmonic functions. (English summary) **98k:35043**
Manfredi, Juan *see* **Lindqvist, Peter, 98k:35043**
Mateljević, Miodrag Estimate for gradient, BMO and Lindelöf theorem. (English summary) **98g:30061**
Minicozzi, William P., II *see* **Colding, Tobias H., 98m:53052**
Moore, Charles N. Estimates for the density of the area integral. (English summary) **98a:42014**
Otero, Jesús A best harmonic approximation problem arising in cartography. (English summary) **98m:41044**
Picardello, Massimo A. Characterizing harmonic functions by mean value properties on trees on symmetric spaces. (*see* **98b:31001**)
Rogge, Lothar *see* **Armitage, David H.; et al., 98h:41023**
Tao, Terence C. Convolution operators on Lipschitz graphs with harmonic kernels. (English summary) **98i:42008**
Toro, Tatiana *see* **Kenig, Carlos E., 98k:31010**
Wertheim, L. *see* **Aizenberg, L. A.; et al., 98i:32016**

31B10 Integral representations, integral operators, integral equations methods

Choe, Boo Rim Representing and interpolating sequences for harmonic Bergman functions on the upper half-spaces. **98b:31004**
Dunkels, Andrejs A note on the equilibrium potential of certain Dirichlet spaces. (English summary) **98e:31006**
Korevaar, Jacob (*with* Monterie, M. A.) Approximation of the equilibrium distribution by distributions of equal point charges with minimal energy. (English summary) **98i:31003**
Mizuta, Yoshihiro Integral representations, differentiability properties and limits at infinity for Beppo Levi functions. (English summary) **98k:31007**
Monterie, M. A. *see* **Korevaar, Jacob, 98i:31003**
Ritter, Stefan On the computation of Lamé functions, of eigenvalues and eigenfunctions of some potential operators. (English summary)

Items with secondary classifications in 31B10

Coifman, Ronald *see* **Meyer, Yves, 98e:42001**

Hanson, Mark T. (*with* Puja, Igusti W.) The evaluation of certain infinite integrals involving products of Bessel functions: a correlation of formula. (English summary) **98i:33005**
Kaneko, Hiroshi[2] Liouville theorems based on symmetric diffusions. (English and French summaries) **98a:31005**
Lebedeva, A. A. A general variant of Kreĭn's theorem for separately subharmonic functions. (Russian) **98c:31002**
Meyer, Yves (*with* Coifman, Ronald) ★ Wavelets. (English summary) **98e:42001**
Miao, Jie Reproducing kernels for harmonic Bergman spaces of the unit ball. (English summary) **98k:46042**
Puja, Igusti W. *see* **Hanson, Mark T., 98i:33005**
Ranošová, Jarmila Sets of determination for solutions of the Helmholtz equation. (English summary) **98d:35037**
Rubin, Boris ★ Fractional integrals and potentials. (English summary) **98h:42018**
(Salinger, David) *see* **Meyer, Yves, 98e:42001**
Shawagfeh, N. T. The solution of a singular integral equation with some applications in potential theory. (English summary) **98k:45004**

31B15 Potentials and capacities, extremal length

Aseev, V. V. Continuity of capacity in the class of condensers with uniformly perfect plates. (Russian)
Korevaar, Jacob Fekete extreme points and related problems. (English summary) **98c:31004**
Kurokawa, Takahide Hypersingular integrals and Riesz potential spaces. (English summary) **98c:31005**
Mihnea, G. Les solutions récursives des potentiels sur des n-sphères conductrices. (French summary) [Recursive solutions of potentials on n conducting spheres] **98b:31005**
Nyström, Kaj Integrability of Green potentials in fractal domains. (English summary) **98f:31008**
Shlyk, V. A. On the uniqueness of an extremal function for the p-capacity of a condenser. (Russian. Russian summary) **98b:31005**
Solbel'man, Ya. S. Asymptotics of a condenser capacity and invariants of Riemannian submanifolds. **98j:31004**
Youssfi, E. H. Smoothness of subharmonic functions and potentials of the Bergman metric in the unit ball. (English summary) **98k:31008**

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Aikawa, Hiroaki (*with* Essén, Matts) ★ Potential theory—selected topics. **98f:31005**
Aïssaoui, N. Bessel potentials in Orlicz spaces. (English summary) **98g:46040**
Cegrell, Urban (*with* Yamaguchi, Hiroshi[1]) Construction of equilibrium current densities. **98g:32017**
Chernousov, G. N. On the metrizability of some sets on compact Riemannian manifolds. (Russian) **98d:31004**
Essén, Matts *see* **Aikawa, Hiroaki, 98f:31005**
Ferrand, Jacqueline Conformal capacities and extremal metrics. (English summary) **98j:30018**
Gasiński, Leszek On capacity and some [of] its applications. (English summary) **98h:31009**
Heinonen, Juha A theorem of Semmes and the boundary absolute continuity in all dimensions. (English summary) **98a:30027**
Kinnunen, Juha (*with* Martio, Olli) The Sobolev capacity on metric spaces. (English summary) **98c:46063**
Martio, Olli *see* **Kinnunen, Juha, 98c:46063**
Mizuta, Yoshihiro Integral representations, differentiability properties and limits at infinity for Beppo Levi functions. (English summary) **98k:31007**
— Remarks on the results by Koskela concerning the radial uniqueness for Sobolev functions. (English summary) **98f:46033**
Nishio, Masaharu Capacity associated with an α-parabolic operator. (English summary) **98j:35078**
Pestana, Domingo (*with* Rodriguez Garcia, José Manuel) Capacity distortion by inner functions in the unit ball of $\mathbf{C}^n$. **98i:32003**
Rodriguez Garcia, José Manuel *see* **Pestana, Domingo, 98i:32003**
Sheveleva, V. N. On the smoothness of basic parabolic potentials in a domain that is infinite with respect to "time". (Russian)
Siciak, Józef Wiener's type sufficient conditions in $\mathbf{C}^N$. (English summary) **98d:31001**
Watanabe, Hisako The initial-boundary value problems for the heat operator in non-cylindrical domains. **98g:35088**
Yamaguchi, Hiroshi[1] *see* **Cegrell, Urban, 98g:32017**
Zorīĭ, N. V. A non-compact extremal problem for condensers in the Riesz potential theory. (English and Polish summaries) **98c:31009**
— On the capacity characteristics of condensers. (Russian. English and Ukrainian summaries) **98m:31010**

31B20 Boundary value and inverse problems

Bahrami, Farid (*with* Shahgholian, Henrik) Uniqueness for an overdetermined boundary value problem for the p-Laplacian. (English summary) **98h:31007**
Ishikawa, Yujiro (*with* Nakai, Mitsuru) Regular and stable points in Dirichlet problem. **98i:31004**
Khavinson, Dmitry Cauchy's problem for harmonic functions with entire data on a sphere. (English summary) **98f:31009**
Kukavica, Igor (*with* Nyström, Kaj) Unique continuation on the boundary for Dini domains. (English summary) **98d:31002**
Medková, Dagmar The third boundary value problem in potential theory for domains with a piecewise smooth boundary. (English summary) **98m:31006**
Nakai, Mitsuru *see* **Ishikawa, Yujiro, 98i:31004**
Nyström, Kaj *see* **Kukavica, Igor, 98d:31002**
Prilepko, A. I. Inverse problems of potential theory. (Russian. Russian summary)
Shahgholian, Henrik *see* **Bahrami, Farid, 98h:31007**
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Adams, David R. Potential and capacity before and after Wiener. **98k:31003**
Adolfsson, Vilhelm (*with* Escauriaza, Luis) $C^{1,\alpha}$ domains and unique continuation at the boundary. (English summary) **98m:31003**
Bolik, Jürgen A priori estimates for differential forms with components in $C^{1,\alpha}$. (English summary) **98k:58005**
Escauriaza, Luis *see* **Adolfsson, Vilhelm, 98m:31003**
Karp, Lavi (*with* Margulis, Avmir S.) Newtonian potential theory for unbounded sources and applications to free boundary problems. **98e:35166**
Lepskiĭ, O. V. On Laplace and Stokes potentials. (English summary) **98i:35032**
Margulis, Avmir S. *see* **Karp, Lavi, 98e:35166**
Shiga, Hiroshige Quasiconformal mappings and potentials. (English summary) **98c:31001**
Stepanova, I. Ė. On the solution of the three-dimensional inverse potential problem. The case of algebraic and projective manifolds. (Russian) **98d:86011**
Watanabe, Hisako Layer potentials for a bounded domain with fractal boundary. (English summary) **98g:31003**

31B25 Boundary behavior

Bogdan, Krzysztof The boundary Harnack principle for the fractional Laplacian. (English summary) **98g:31005**
Gao, Qi Ren Uniqueness theorems for α-harmonic functions. (Chinese. English and Chinese summaries) **98g:31006**
Gardiner, Stephen J. Cluster sets of harmonic functions at the boundary of a half-space. **98b:31006**
GowriSankaran, Kohur (*with* Singman, David) A generalized Littlewood theorem for Weinstein potentials on a halfspace. **98m:31007**
Rao, N. V. A uniqueness theorem for harmonic functions. (English summary) **98h:31008**
Saeki, Sadahiro On Fatou-type theorems for non-radial kernels. **98c:31006**
Singman, David *see* **GowriSankaran, Kohur, 98m:31007**
Topuria, S. Boundary properties of first-order partial derivatives of the Poisson integral for the half-space $\mathbf{R}^k_{k+1}$ $(k > 1)$. (English summary) **98k:31009**
Wen, Zhi Ying (*with* Zhang, Yiping) Singular boundary properties of harmonic functions and fractal analysis. (English summary) **98j:31005**
Zhang, Yiping Some boundary increasing properties of harmonic functions in Lipschitz domain. (English summary) **98f:31010**
— *see also* **Wen, Zhi Ying, 98j:31005**

Items with secondary classifications in 31B25

Aikawa, Hiroaki (*with* Essén, Matts) ★ Potential theory—selected topics. **98f:31005**
Damek, Ewa Fundamental solutions of differential operators on homogeneous manifolds of negative curvature and related Riesz transforms. **98f:22013**
— (*with* Hulanicki, Andrzej; Zienkiewicz, Jacek) Estimates for the Poisson kernels and their derivatives on rank one NA groups. (English summary) **98h:22007**
Essén, Matts *see* **Aikawa, Hiroaki, 98f:31005**
Hulanicki, Andrzej *see* **Damek, Ewa; et al., 98h:22007**
Mizuta, Yoshihiro Remarks on the results by Koskela concerning the radial uniqueness for Sobolev functions. (English summary) **98f:46033**
Nakai, Mitsuru Boundary continuity of Dirichlet finite harmonic measures on compact bordered Riemannian manifolds. (English summary) **98j:31008**
— (*with* Tada, Toshimasa) Monotoneity and homogeneity of Picard dimensions for signed radial densities. (English summary) **98i:31006**
Nyström, Kaj The Dirichlet problem for second order parabolic operators. (English summary) **98k:35087**
Salvatori, Maura (*with* Vignati, Marco) Tangential boundary behaviour of harmonic functions on trees. (English summary) **98m:31012**
Tada, Toshimasa *see* **Nakai, Mitsuru, 98i:31006**
Vignati, Marco *see* **Salvatori, Maura, 98m:31012**
Zienkiewicz, Jacek *see* **Damek, Ewa; et al., 98h:22007**

31B30 Biharmonic and polyharmonic equations and functions

Mizuta, Yoshihiro An integral representation and fine limits at infinity for functions whose Laplacians iterated m times are measures. (English summary) **98m:31008**

Items with secondary classifications in 31B30

Al-Gwaiz, M. A. *see* **Anandam, V., 98h:31004**
Anandam, V. (*with* Al-Gwaiz, M. A.) Global representation of harmonic and biharmonic functions. (English summary) **98h:31004**
Chichinadze, Raphiel (*with* Gegelia, T. G.) Boundary value problems of mechanics of continuum media for a sphere. (English and Georgian summaries) **98a:73019**
Gegelia, T. G. *see* **Chichinadze, Raphiel, 98a:73019**
Lebedeva, A. A. A general variant of Kreĭn's theorem for separately subharmonic functions. (Russian) **98c:31002**
Pavlović, Miroslav A proof of the Hardy-Littlewood theorem on fractional integration and a generalization. (English summary) **98a:30042**
Vakilian, Ramin Asymptotic behavior of solutions of polyharmonic semilinear equations. II. **98j:35054**

31B35 Connections with differential equations

Bandle, Catherine (*with* Flucher, M.) Applications of harmonic transplantation to variational problems. **98c:31007**
Bondarenko, B. A. (*with* Karachik, V. V.) Normalized systems of polyharmonic polynomials and their application to the solution of the Riquier problem. (Russian. English, Russian and Uzbek summaries)
Flucher, M. *see* **Bandle, Catherine, 98c:31007**

Gasiński, Leszek On capacity and some [of] its applications. (English summary) **98h:31009**
Karachik, V. V. *see* **Bondarenko, B. A.**
Shimomura, Tetsu L^q-mean limits for Taylor's expansion of Riesz potentials of functions in Orlicz classes. (English summary) **98f:31011**

Items with secondary classifications in 31B35

Arbuzov, È. V. (*with* Bukhgeĭm, A. L.) The Cauchy problem for A-harmonic functions. (Russian) **98j:35043**
Boukricha, Abderrahman Classe de Kato et équation de Schrödinger généralisée avec singularité isolée. [Kato class and generalized Schrödinger equation with isolated singularity] **98a:31004**
Bukhgeĭm, A. L. *see* **Arbuzov, È. V., 98j:35043**
Ertas, Abdulkadir An elementary solution for generalized polyaxially symmetric potential equation. (English summary) **98g:35030**
Ji, Xinhua Poisson kernel for a degenerate elliptic equation and applications to boundary value problems. (English summary) **98i:35071**
Kulczycki, Tadeusz Properties of Green function of symmetric stable processes. (English summary) **98m:60119**
Miyamoto, Ikuko Harmonic functions in a cylinder which vanish on the boundary. **98c:31003**
Murata, Minoru Semismall perturbations in the Martin theory for elliptic equations. (English summary) **98k:35036**
Siegel, David (*with* Talvila, E. O.) Uniqueness for the n-dimensional half space Dirichlet problem. (English summary) **98a:35020**
Skrypnik, Igor'V. Pointwise estimates of potentials for higher-order capacity. (Russian. English and Ukrainian summaries) **98e:35057**
Talvila, E. O. *see* **Siegel, David, 98a:35020**
Watanabe, Hisako The initial-boundary value problems for the heat operator in non-cylindrical domains. **98g:35088**
Yarur, Cecilia S. Existence of continuous and singular ground states for semilinear elliptic systems. (English summary) **98m:35057**

31B99 None of the above, but in this section

Kenig, Carlos E. (*with* Toro, Tatiana) Harmonic measure on locally flat domains. **98k:31010**
Kopaev, A. V. On an integral transformation of functions that are harmonic in a half-space. (Russian. Russian summary) **98f:31012**
Toro, Tatiana *see* **Kenig, Carlos E., 98k:31010**

Items with secondary classifications in 31B99

Baranov, A. S. On a special class of harmonic and biharmonic functions that are adapted to the solution of boundary value problems of mathematical physics on a spheroid. (Russian. Russian summary) **98a:35012**
Krantz, Steven G. (*with* Li, Song-Ying) Area integral characterizations of functions in Hardy spaces on domains in $\mathbf{C}^n$. (English summary) **98m:32003**
Li, Song-Ying *see* **Krantz, Steven G., 98m:32003**
Schreiner, Michael Locally supported kernels for spherical spline interpolation. (English summary) **98j:41017**

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Keglević, Ivan Linear property in $\mathbf{R}^n$. (English summary) **98d:31003**
Northshield, Sam Flows and harmonic functions on graphs. (*see* **98b:31001**)
Rigoli, Marco (*with* Salvatori, Maura; Vignati, Marco) Harnack and Liouville properties on graphs. (*see* **98b:31001**)
Salvatori, Maura *see* **Rigoli, Marco; et al., (98b:31001)**
Vignati, Marco *see* **Rigoli, Marco; et al., (98b:31001)**

Items with secondary classifications in 31C05

Ahern, Patrick (*with* Bruna, Joaquim; Cascante, Carme) H^p-theory for generalized M-harmonic functions in the unit ball. (English summary) **98f:32008**
Bekka, Mohammed El Bachir (*with* Valette, Alain) Group cohomology, harmonic functions and the first L^2-Betti number. (English summary) **98e:20056**
Benjamini, Itai (*with* Schramm, Oded) Random walks and harmonic functions on infinite planar graphs using square tilings. (English summary) **98d:60134**
Bogdan, Krzysztof The boundary Harnack principle for the fractional Laplacian. (English summary) **98g:31005**
Bruna, Joaquim *see* **Ahern, Patrick; et al., 98f:32008**
Cascante, Carme *see* **Ahern, Patrick; et al., 98f:32008**
Ferrari, Fausto A comparison theorem for harmonic functions in domains with Hölder boundary. (Italian. English summary) **98j:35012**
Losev, A. G. On a criterion for the hyperbolicity of noncompact Riemannian manifolds of a special form. (Russian. Russian summary) **98e:53057**
Raugi, Albert Fonctions harmoniques positives sur certains groupes de Lie résolubles connexes. (English and French summaries) [Positive harmonic functions on certain connected solvable Lie groups] **98h:22008**
Sawyer, Stanley A. Martin boundaries and random walks. **98k:60127**
Schramm, Oded *see* **Benjamini, Itai, 98d:60134**
Valette, Alain *see* **Bekka, Mohammed El Bachir, 98e:20056**

31C10 Pluriharmonic and plurisubharmonic functions [see also 32F05]

Items with secondary classifications in 31C10

Cegrell, Urban (*with* Persson, Leif) An energy estimate for the complex Monge-Ampère operator. (English summary) **98i:32021**
Celik, Halil Ibrahim (*with* Poletsky, Evgeny A.) Fundamental solutions of the complex Monge-Ampère equation. (English summary) **98m:32021**
— (*with* Poletsky, Evgeny A.) Order functions of plurisubharmonic functions. (English summary) **98c:32017**
Cheng, Qiyuan (*with* Dong, Yu Xing) On factorization theorems of pluriharmonic maps into the unitary group. (English summary) **98k:58065**
Dong, Yu Xing *see* **Cheng, Qiyuan, 98k:58065**
Persson, Leif *see* **Cegrell, Urban, 98i:32021**
Poletsky, Evgeny A. *see* **Celik, Halil Ibrahim, 98c:32017** *and* **98m:32021**
Siciak, Józef On metrics associated with extremal plurisubharmonic functions. (English summary) **98j:32008**
— A remark on Tchebysheff polynomials in $\mathbf{C}^N$. (English summary) **98d:32019**

31C12 Potential theory on Riemannian manifolds [see also 53C20; for Hodge theory, see 58A14]

Bagby, Thomas (*with* Gauthier, Paul M.; Woodworth, Jennifer) Tangential harmonic approximation on Riemannian manifolds. (English summary) **98m:31009**
Gauthier, Paul M. *see* **Bagby, Thomas; et al., 98m:31009**
Woodworth, Jennifer *see* **Bagby, Thomas; et al., 98m:31009**

Items with secondary classifications in 31C12

Hsu, Elton P. Logarithmic Sobolev inequalities on path spaces over Riemannian manifolds. (English summary) **98i:58249**
Leclercq, Éric The asymptotic Dirichlet problem with respect to an elliptic operator on a Cartan-Hadamard manifold with unbounded curvatures. (English and French summaries) **98k:53041**
Lyons, T. J. (*with* Qian, Zhongmin) A class of vector fields on path spaces. (English summary) **98d:60107**
Qian, Zhongmin *see* **Lyons, T. J., 98d:60107**
Solbel'man, Ya. S. Asymptotics of a condenser capacity and invariants of Riemannian submanifolds. **98j:31004**

31C15 Potentials and capacities

Amghibech, S. Inégalités isopérimétriques pour les graphes. (English and French summaries) [Isoperimetric inequalities for graphs] **98i:31005**
Bendito, E. (*with* Encinas, A. M.) Minimizing energy on locally compact spaces: existence and approximation. (English summary) **98c:31008**
Chernousov, G. N. On the metrizability of some sets on compact Riemannian manifolds. (Russian) **98d:31004**
Denis, Laurent Quasi-sure analysis related to a sub-Markovian semi-group. (English summary) **98h:31010**
Encinas, A. M. *see* **Bendito, E., 98c:31008**
Kalyabin, G. A. The uniform norming of retractions on short intervals for certain function spaces. (English summary) **98k:31011**
Sjödin, Tord A note on capacity and Hausdorff measure in homogeneous spaces. (English summary) **98e:31007**
Zorii, N. V. A non-compact extremal problem for condensers in the Riesz potential theory. (English and Polish summaries) **98c:31009**
— On the capacity characteristics of condensers. (Russian. English and Ukrainian summaries) **98m:31010**

Items with secondary classifications in 31C15

Adams, David R. Potential and capacity before and after Wiener. **98k:31003**
Cascante, Carme (*with* Ortega, Joaquin M.) On q-Carleson measures for spaces of $\mathcal{M}$-harmonic functions. (English summary) **98m:32002**
Glover, Joseph (*with* Rao, Murali) Condenser potentials. (English summary) **98e:60124**
Mateu, Joan (*with* Netrusov, Yu. V.; Orobitg, J.; Verdera, J.) BMO and Lipschitz approximation by solutions of elliptic equations. (English and French summaries) **98c:41029**
— A counterexample in L^p approximation by harmonic functions. (English summary) **98g:41026**
Maz'ya, Vladimir G. Unsolved problems connected with the Wiener criterion. **98e:35040**
Netrusov, Yu. V. *see* **Mateu, Joan; et al., 98c:41029**
Orobitg, J. *see* **Mateu, Joan; et al., 98c:41029**
Ortega, Joaquin M. *see* **Cascante, Carme, 98m:32002**
Rao, Murali *see* **Glover, Joseph, 98e:60124**
Solbel'man, Ya. S. Asymptotics of a condenser capacity and invariants of Riemannian submanifolds. **98j:31004**
Verdera, J. *see* **Mateu, Joan; et al., 98c:41029**

31C20 Discrete potential theory and numerical methods

Murakami, Atsushi (*with* Yamasaki, Maretsugu) An introduction of Kuramochi boundary of an infinite network. (English summary) **98m:31011**
Northshield, Sam A note on recurrence, amenability, and the universal cover of graphs. (English summary) **98c:31010**
Oettli, Werner (*with* Yamasaki, Maretsugu) The generalized strong isoperimetric inequality in locally finite networks. (English summary) **98k:31012**
Salvatori, Maura (*with* Vignati, Marco) Tangential boundary behaviour of harmonic functions on trees. (English summary) **98m:31012**
Urakawa, Hajime Heat kernel and Green kernel comparison theorems for infinite graphs. (English summary) **98f:31013**
Vignati, Marco *see* **Salvatori, Maura, 98m:31012**
Yamasaki, Maretsugu *see* **Oettli, Werner, 98k:31012** *and* **Murakami, Atsushi, 98m:31011**

Items with secondary classifications in 31C20

Bendito, E. (*with* Encinas, A. M.) Minimizing energy on locally compact spaces: existence and approximation. (English summary) **98c:31008**
Encinas, A. M. *see* **Bendito, E., 98c:31008**
Northshield, Sam Flows and harmonic functions on graphs. (*see* **98b:31001**)
Oettli, Werner (*with* Yamasaki, Maretsugu) Existence of feasible potentials on infinite networks. (English summary) **98a:94050**
Pruss, Alexander R. One-dimensional random walks, decreasing rearrangements and discrete Steiner symmetrization. (English and French summaries) **98k:60119**
Rigoli, Marco (*with* Salvatori, Maura; Vignati, Marco) Harnack and Liouville properties on graphs. (*see* **98b:31001**)
Saloff-Coste, Laurent Some inequalities for superharmonic functions on graphs. (English summary) **98f:31007**
Salvatori, Maura *see* **Rigoli, Marco; et al., (98b:31001)**
Vignati, Marco *see* **Rigoli, Marco; et al., (98b:31001)**
Yamasaki, Maretsugu *see* **Oettli, Werner, 98a:94050**

31C25 Dirichlet spaces

Fan, Ru-Zong Potential theory of hyperfinite Dirichlet forms. (English summary) **98j:31006**
Gianazza, Ugo Meyer estimate for Dirichlet forms. (Italian summary) **98e:31008**
Jost, Jürgen Generalized Dirichlet forms and harmonic maps. (English summary) **98f:31014**
Kaneko, Hiroshi[2] Liouville theorems based on Dirichlet integrals. **98f:31015a**
— Liouville theorems based on Dirichlet space theory. (English summary) **98f:31015b**
— Liouville theorems based on symmetric diffusions. (English and French summaries) **98a:31005**
Kawabata, Toshihiro (*with* Takeda, Masayoshi) On uniqueness problem for local Dirichlet forms. **98e:31009**
Kuwae, Kazuhiro On pseudo metrics of Dirichlet forms on separable metric spaces. (English summary) **98m:31013**
Metz, Volker Renormalization contracts on nested fractals. **98b:31007**
Mosco, Umberto Metric properties of degenerate and fractals media. (English summary) **98j:31007**
Noll, André A generalization of Dynkin's formula and capacitary estimates for semi-bounded operators. (English summary) **98e:31010**
Park, Yong Moon (*with* Yoo, Hyun Jae) Dirichlet operators on loop spaces: essential self-adjointness and log-Sobolev inequality. (English summary) **98g:31007**
Takeda, Masayoshi *see* **Kawabata, Toshihiro, 98e:31009**
Yoo, Hyun Jae *see* **Park, Yong Moon, 98g:31007**

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Accardi, Luigi (*with* Bogachev, Vladimir I.) The Ornstein-Uhlenbeck process associated with the Lévy Laplacian and its Dirichlet form. (English summary) **98d:60143**
Albeverio, Sergio (*with* Ma, Zhi-Ming; Röckner, Michael) Partitions of unity in Sobolev spaces over infinite-dimensional state spaces. (English summary) **98a:46048**
Benjamini, Itai (*with* Schramm, Oded) Random walks and harmonic functions on infinite planar graphs using square tilings. (English summary) **98d:60134**
Biroli, Marco An embedding property of Schechter's type for Dirichlet forms on an homogeneous space. (Italian summary) **98f:46028**
— (*with* Tchou, N. A.) Asymptotic behaviour of relaxed Dirichlet problems involving a Dirichlet-Poincaré form. (English summary) **98h:35045**
Bogachev, Vladimir I. (*with* Krylov, Nicolai V.; Röckner, Michael) Regularity of invariant measures: the case of non-constant diffusion part. (English summary) **98d:60120**
— *see also* **Accardi, Luigi, 98d:60143**
Cipriani, Fabio Dirichlet forms and Markovian semigroups on standard forms of von Neumann algebras. (English summary) **98i:46067**
Dunkels, Andrejs A note on the equilibrium potential of certain Dirichlet spaces. (English summary) **98e:31006**
Elworthy, K. D. (*with* Ma, Zhi-Ming) Admissible vector fields and related diffusions on finite-dimensional manifolds. (English and Ukrainian summaries) **98i:58247**
Fitzsimmons, P. J. Absolute continuity of symmetric diffusions. (English summary) **98c:60097**
Fradon, Myriam Diffusions réfléchies réversibles dégénérées. (English and French summaries) [Degenerate reversible reflected diffusions] **98f:60149**
Fukushima, Masatoshi (*with* Tomisaki, Matsuyo) On decomposition of additive functionals of reflecting Brownian motions. **98f:60152**
— (*with* Tomisaki, Matsuyo) Construction and decomposition of reflecting diffusions on Lipschitz domains with Hölder cusps. (English summary) **98d:60157**
Höhnle, Rainer (*with* Sturm, Karl Theodor) On the structure of subordinate semigroups. (English summary) **98j:60106**
Jacob, Niels (*with* Schilling, René L.) Estimates for Feller semigroups generated by pseudodifferential operators. **98k:47084**
Kirillov, A. I. Dirichlet spaces of random processes and generalizations of Itô's formula. (English summary) **98e:60127**
Krylov, Nicolai V. *see* **Bogachev, Vladimir I.; et al., 98d:60120**
Lim, Hye Young (*with* Park, Yong Moon; Yoo, Hyun Jae) Dirichlet forms, Dirichlet operators, and log-Sobolev inequalities for Gibbs measures of classical unbounded spin system. (English summary) **98i:60074**
Lyons, T. J. (*with* Röckner, Michael; Zhang, Tu Sheng) Martingale decomposition of Dirichlet processes on the Banach space $C_0[0, 1]$. (English summary) **98c:60100**
Ma, Zhi-Ming *see* **Albeverio, Sergio; et al., 98a:46048** *and* **Elworthy, K. D., 98i:58247**
McGillivray, Ivor (*with* Ouhabaz, El-Maati) Existence of bounded invariant solutions for absorption semigroups. (English summary) **98d:47102**
Mosco, Umberto (*with* Notarantonio, Lino) Homogeneous fractal spaces. **98a:49069**
Noll, André Capacitary estimates for the ground-state shift. (English summary) **98h:60114**
Notarantonio, Lino *see* **Mosco, Umberto, 98a:49069**
Ôkura, Hiroyuki Capacitary inequalities and recurrence criteria for symmetric Markov processes of pure jump type. (English summary) **98e:60115**
Oshima, Yoichi (*with* Sturm, Karl Theodor) On the conservativeness of a space-time process. (English summary) **98m:60120**
Ouhabaz, El-Maati *see* **McGillivray, Ivor, 98d:47102**
Park, Yong Moon *see* **Lim, Hye Young; et al., 98i:60074**
Röckner, Michael (*with* Zhang, Tu Sheng) Finite-dimensional approximation of diffusion processes of infinite-dimensional spaces. (English summary) **98e:60128**
— *see also* **Albeverio, Sergio; et al., 98a:46048; Lyons, T. J.; et al., 98c:60100** *and* **Bogachev, Vladimir I.; et al., 98d:60120**
Sabot, Christophe Existence and uniqueness of diffusions on finitely ramified self-similar fractals. (English and French summaries) **98h:60118**
Schilling, René L. *see* **Jacob, Niels, 98k:47084**
Schramm, Oded *see* **Benjamini, Itai, 98d:60134**
Stroock, Daniel W. (*with* Zheng, Weian) Markov chain approximations to symmetric diffusions. (English and French summaries) **98k:60125**
Sturm, Karl Theodor Is a diffusion process determined by its intrinsic metric? (English summary) **98h:58203**
— Monotone approximation of energy functionals for mappings into metric spaces. I. **98j:60101**
— *see also* **Höhnle, Rainer, 98j:60106** *and* **Oshima, Yoichi, 98m:60120**
Takeda, Masayoshi On exit times of symmetric Lévy processes from connected open sets. (English summary) **98e:60121**
— On a large deviation for symmetric Markov processes with finite life time. (English summary) **98b:60057**
— (*with* Zhang, Tu Sheng) Asymptotic properties of additive functionals of Brownian motion. (English summary) **98a:60108**
Tanemura, Hideki Uniqueness of Dirichlet forms associated with systems of infinitely many Brownian balls in $\mathbb{R}^d$. (English summary) **98m:60159**
Tchou, N. A. *see* **Biroli, Marco, 98h:35045**
Tomisaki, Matsuyo Construction of reflecting diffusion processes on singular domains. (English summary) **98e:60129**
— *see also* **Fukushima, Masatoshi, 98d:60157** *and* **98f:60152**
Wen, Zhi Ying (*with* Zhang, Yiping) Singular boundary properties of harmonic functions and fractal analysis. (English summary) **98j:31005**
Ying, Jian Gang Characterization of bivariate Revuz measures. **98f:60148**
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Zhang, Yiping *see* **Wen, Zhi Ying, 98j:31005**
Zheng, Weian *see* **Stroock, Daniel W., 98k:60125**

31C35 Martin boundary theory [see also 60J50]

Aikawa, Hiroaki (*with* Murata, Minoru) Generalized Cranston-McConnell inequalities and Martin boundaries of unbounded domains. (English summary) **98f:31016**
Masaoka, Hiroaki Criterion of Wiener type for minimal thinness on covering surfaces. **98g:31008**
Murata, Minoru *see* **Aikawa, Hiroaki, 98f:31016**
Nakai, Mitsuru (*with* Tada, Toshimasa) Monotoneity and homogeneity of Picard dimensions for signed radial densities. (English summary) **98i:31006**
Tada, Toshimasa *see* **Nakai, Mitsuru, 98i:31006**

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McKean, Henry P. A Martin boundary connected with the ∞-volume limit of the focussing cubic Schrödinger equation. (English summary) **98k:82008**
Sawyer, Stanley A. Martin boundaries and random walks. **98k:60127**
Zhang, Yiping Some boundary increasing properties of harmonic functions in Lipschitz domain. (English summary) **98f:31010**

31C40 Fine potential theory

Items with secondary classifications in 31C40

Beznea, Lucian (*with* Boboc, Nicu) Condensation points for the fine topology. (English summary) **98m:31014**
Boboc, Nicu *see* **Beznea, Lucian, 98m:31014**
Latvala, Visa Fine topology and A_p-harmonic morphisms. (English summary) **98f:31017**
Pyrih, Pavel An example of packing related small sets. (English summary) **98a:30059**

31C45 Other generalizations (nonlinear potential theory, etc.)

Latvala, Visa Fine topology and A_p-harmonic morphisms. (English summary) **98f:31017**
Masaoka, Hiroaki Quasiregular mappings and d-thinness. **98a:31006**
Nakai, Mitsuru Existence of Dirichlet infinite harmonic measures on the Euclidean unit ball. (English summary) **98f:31018**
— Continuity of Royden harmonic boundaries. (Japanese) **98h:31011**
— Boundary continuity of Dirichlet finite harmonic measures on compact bordered Riemannian manifolds. (English summary) **98j:31008**

Items with secondary classifications in 31C45

Adams, David R. (*with* Nussenzveig Lopes, H. J.) Nonlinear weakly elliptic 2×2 systems of variational inequalities with unilateral obstacle constraints. (English summary) **98m:35075**
Alssaoui, N. Instability of capacity in Orlicz spaces. (English summary) **98g:46039**
Buckley, Stephen M. (*with* Koskela, Pekka; Lu, Guozhen) Boman equals John. (English summary) **98m:43013**
Dal Maso, Gianni (*with* Garroni, Adriana; Skrypnik, Igor V.) A capacitary method for the asymptotic analysis of Dirichlet problems for monotone operators. (English summary) **98f:35045**
Dellacherie, Claude Théorie générale du potentiel. I. (French summary) [General potential theory. I] **98f:31019**

Garroni, Adriana *see* **Dal Maso, Gianni; et al., 98f:35045**
Herron, D. A. (*with* Koskela, Pekka) Continuity of Sobolev functions and Dirichlet finite harmonic measures. (English summary) **98i:46027**
Koskela, Pekka *see* **Herron, D. A., 98i:46027** *and* **Buckley, Stephen M.; et al., 98m:43013**
Liu, Zong Guang The Orlicz-Sobolev capacity on metric spaces. (Chinese. English and Chinese summaries) **98e:46040**
Lu, Guozhen *see* **Buckley, Stephen M.; et al., 98m:43013**
Malý, Jan (*with* Ziemer, William P.) ★ Fine regularity of solutions of elliptic partial differential equations. (English summary) **98h:35080**
Markina, I. G. (*with* Vodop'yanov, S. K.) Fundamentals of the nonlinear potential theory for subelliptic equations. I. (English summary) **98i:35028**
Nussenzveig Lopes, H. J. *see* **Adams, David R., 98m:35075**
Pokhozhaev, Stanislav Ivanovich Essentially nonlinear capacities induced by differential operators. (Russian) **98i:35052**
Sheu, Yuan-Chung On states of exit measures for superdiffusions. (English summary) **98d:60159**
Skrypnik, Igor'V. *see* **Dal Maso, Gianni; et al., 98f:35045**
Vodop'yanov, S. K. *see* **Markina, I. G., 98i:35028**
Ziemer, William P. *see* **Malý, Jan, 98h:35080**

31C99 None of the above, but in this section

Coornaert, Michel (*with* Papadopoulos, Athanase) A Fatou-type theorem for functions associated with conformal densities on the boundary of a metric tree. **98e:31011**
Papadopoulos, Athanase *see* **Coornaert, Michel, 98e:31011**

Items with secondary classifications in 31C99

Biggs, Norman L. Algebraic potential theory on graphs. **98m:05120**
Dong, Zhao A representation of capacity by first hitting time of an m-tight process on a general state space and its applications. (Chinese. English and Chinese summaries) **98k:60126**
Franchi, Jacques (*with* Le Jan, Yves) Brownian charges around loops. (English summary) **98a:60113**
Gallardo, Léonard (*with* Trimèche, Khélifa) L'équation de Poisson et les noyaux de Green associés à un opérateur différentiel singulier sur $\mathbf{R}_+$. (English and French summaries) [The Poisson equation and the Green kernels associated with a singular differential operator on $\mathbf{R}_+$] **98f:43011**
Le Jan, Yves *see* **Franchi, Jacques, 98a:60113**
Trimèche, Khélifa *see* **Gallardo, Léonard, 98f:43011**
Zheng, Dechao Commuting Toeplitz operators with pluriharmonic symbols. (English summary) **98i:47027**

31D05 Axiomatic potential theory

Bendikov, A. D. ★ Potential theory on infinite-dimensional abelian groups. **98i:31007**
Bensuda, Ch. Tangential approximation on closed sets of the Brelot harmonic space. (Russian. English and Russian summaries) **98h:31012**
Beznea, Lucian (*with* Boboc, Nicu) Once more about the semipolar sets and regular excessive functions. (English summary) **98j:31009**
— (*with* Boboc, Nicu) Condensation points for the fine topology. (English summary) **98m:31014**
Boboc, Nicu (*with* Bucur, Gheorghe) Dilation operators in excessive structures; existence and uniqueness. (English summary) **98c:31011**
— *see also* **Beznea, Lucian, 98j:31009** *and* **98m:31014**
Bucur, Gheorghe *see* **Boboc, Nicu, 98c:31011**
Dellacherie, Claude Théorie générale du potentiel. I. (French summary) [General potential theory. I] **98f:31019**
Eriksson-Bique, Sirkka-Liisa Multiply hyperharmonic functions. (English summary) **98f:31020**
Grecea, Valentin The extension of Grishin's lemma to excessive measures. (English summary) **98m:31015**
Popa, Liliana Properties of measures of representation on a standard H-cone. (Romanian summary)
— Gradient measure on standard H-cone. (Romanian summary)
(Regher, Carol) *see* **Bendikov, A. D., 98i:31007**
Udrea, Corneliu I. The Perron-Wiener-Brelot method and the Monge-Ampère equation. (English summary) **98c:31012**
Wu, Jiong Qi Positive linear maps and their induced generalized weights and capacities. (Chinese. English and Chinese summaries) **98e:31012**
Zahid, Mehdi Résolvante sous markovienne et comparaison. (English summary) [Sub-Markov resolvent and comparison] **98h:31013**

Items with secondary classifications in 31D05

Jost, Jürgen Generalized Dirichlet forms and harmonic maps. (English summary) **98f:31014**

32–XX Several complex variables and analytic spaces {For infinite-dimensional holomorphy, see also 46G20, 58B12.}

32–01 Instructional exposition (textbooks, tutorial papers, etc.)

Laurent-Thiébaut, Christine ★ Théorie des fonctions holomorphes de plusieurs variables. (French) [Theory of holomorphic functions of several variables] **98g:32001**

32–02 Research exposition (monographs, survey articles)

Alexander, Herbert (*with* Wermer, John) ★ Several complex variables and Banach algebras. **98g:32002**
(Vakhrameev, S. A.) *see* **Complex analysis. Several variables, 98f:32001**
Wermer, John *see* **Alexander, Herbert, 98g:32002**

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Complex analysis. Several variables ★ Комплексный анализ. Многие переменные. 7. (Russian) [Complex analysis. Several variables. 7] **98f:32001**
Itogi Nauki i Tekhniki ★ Комплексный анализ. Многие переменные. 7. (Russian) [Complex analysis. Several variables. 7] **98f:32001**

Items with secondary classifications in 32–02

Baadhio, Randy A. ★ Quantum topology and global anomalies. (English summary) **98k:58001**

32–03 Historical (must also be assigned at least one classification number from Section 01)

Norguet, François Résidus: de Poincaré à Leray un siècle de suspense. (English and French summaries) [Residues: from Poincaré to Leray, a century of suspense] **98k:32001**
Ohsawa, Takeo From the origins of the theory of functions of several variables to one of its further developments. (Japanese)

Items with secondary classifications in 32–03

(Bers, Lipman) *see* **Kra, Irwin, 98g:01063**
Kra, Irwin (*with* Maskit, Bernard) Lipman Bers, complex analyst. **98g:01063**
Maskit, Bernard *see* **Kra, Irwin, 98g:01063**
Sugawa, Toshiyuki History and outlook for Teichmüller theory. (Japanese)
Ullrich, Peter The Riemann mapping problem. **98b:01024**

32–06 Proceedings, conferences, collections, etc.

(Akahori, Takao) *see* **CR-geometry and overdetermined systems, 98d:32001**
(Ancona, V.) *see* **Complex analysis and geometry, 98f:32002**
(Ballico, Edoardo) *see* **Complex analysis and geometry, 98f:32002**
Barlet, D. (*with* Geandier, F.; Belgrade, R.) ★ Séminaire de Singularités. (French) [Seminar on Singularities] **98g:32003**
Belgrade, R. *see* **Barlet, D.; et al., 98g:32003**
Bell, S. R. (*with* Brylinski, Jean-Luc; Huckleberry, A. T.; Narasimhan, Raghavan; Okonek, Christian; Schumacher, Georg; Van de Ven, A.; Zucker, Steven M.) ★ Complex manifolds. **98k:32002**
Brylinski, Jean-Luc *see* **Bell, S. R.; et al., 98k:32002**
(Catanese, Fabrizio) *see* **Demailly, Jean-Pierre; et al., 98h:32001**
(Ciliberto, Ciro) *see* **Demailly, Jean-Pierre; et al., 98h:32001**
Demailly, Jean-Pierre (*with* Peternell, Thomas; Tian, Gang; Tyurin, A. N.) ★ Transcendental methods in algebraic geometry. **98h:32001**
(Deninger, Christopher) *see* **Series of the Mathematical Institute of the University of Münster. Series 3, 98g:32005**
(Fujimoto, Hirotaka) *see* **Geometric complex analysis, 98a:32001**
(Fukuda, Takuo) *see* **Real analytic and algebraic singularities, 98i:32001**
(Fukui, Toshizumi) *see* **Real analytic and algebraic singularities, 98i:32001**
Geandier, F. *see* **Barlet, D.; et al., 98g:32003**
Huckleberry, A. T. *see* **Bell, S. R.; et al., 98k:32002**
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(Kajiwara, Joji) *see* **Geometric complex analysis, 98a:32001**
(Kobayashi, Shoshichi) *see* **Geometry and analysis on complex manifolds, 98b:32001**
(Koike, Satoshi) *see* **Real analytic and algebraic singularities, 98i:32001**
(Komatsu, Gen) *see* **CR-geometry and overdetermined systems, 98d:32001**
(Libgober, Anatoly) *see* **Singularities and complex geometry, 98d:32002**
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(Marar, W. L.) *see* **Real and complex singularities, 98e:32001**
(Mirò-Roig, Rosa Maria) *see* **Complex analysis and geometry, 98f:32002**
(Miyajima, Kimio) *see* **CR-geometry and overdetermined systems, 98d:32001**
(Namba, Makoto) *see* **CR-geometry and overdetermined systems, 98d:32001**
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(Yau, Stephen S.-T.) *see* **Singularities and complex geometry, 98d:32002**
Zucker, Steven M. *see* **Bell, S. R.; et al., 98k:32002**

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Beijing ★ Singularities and complex geometry. **98d:32002**
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Kobayashi, Shoshichi ★ Geometry and analysis on complex manifolds. **98b:32001**
Colloquium:
Complex Geometry ★ Géométrie complexe. (French) [Complex geometry] **98g:32004**
Complex analysis and geometry ★ Complex analysis and geometry. **98f:32002**
Complex geometry ★ Géométrie complexe. (French) [Complex geometry] **98g:32004**
Complex manifolds *see* **Bell, S. R.; et al., 98k:32002**
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Complex Analysis and Geometry ★ Complex analysis and geometry. **98f:32002**
CR-geometry and Overdetermined Systems ★ CR-geometry and overdetermined systems. **98d:32001**
Geometric Complex Analysis ★ Geometric complex analysis. **98a:32001**
Vector Bundles on Fano Threefolds ★ Complex analysis and geometry. **98f:32002**
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Éléments de la théorie des systèmes différentiels. Images directes et constructibilité ★ Éléments de la théorie des systèmes différentiels. Images directes et constructibilité. (French) [Elements of the theory of differential systems. Direct images and constructibility] **98h:32003**
Elements of the theory of differential systems. Coherent and holonomic $\mathscr{D}$-modules ★ Éléments de la théorie des systèmes différentiels. $\mathscr{D}$-modules cohérents et holonomes. [Elements of the theory of differential systems. Coherent and holonomic $\mathscr{D}$-modules] **98h:32002**
Elements of the theory of differential systems. Direct images and constructibility ★ Éléments de la théorie des systèmes différentiels. Images directes et constructibilité. (French) [Elements of the theory of differential systems. Direct images and constructibility] **98h:32003**
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Hayama ★ Geometric complex analysis. **98a:32001**
Nagoya ★ Real analytic and algebraic singularities. **98i:32001**
Nice ★ Éléments de la théorie des systèmes différentiels. $\mathscr{D}$-modules cohérents et holonomes. [Elements of the theory of differential systems. Coherent and holonomic $\mathscr{D}$-modules] **98h:32002**
— ★ Éléments de la théorie des systèmes différentiels. Images directes et constructibilité. (French) [Elements of the theory of differential systems. Direct images and constructibility] **98h:32003**
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Real analytic and algebraic singularities ★ Real analytic and algebraic singularities. **98i:32001**
Real and complex singularities ★ Real and complex singularities. **98e:32001**
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Sapporo ★ Real analytic and algebraic singularities. **98i:32001**
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Elements of the Theory of Differential Systems ★ Éléments de la théorie des systèmes différentiels. $\mathscr{D}$-modules cohérents et holonomes. [Elements of the theory of differential systems. Coherent and holonomic $\mathscr{D}$-modules] **98h:32002**
— ★ Éléments de la théorie des systèmes différentiels. Images directes et constructibilité. (French) [Elements of the theory of differential systems. Direct images and constructibility] **98h:32003**
Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 20. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 20] **98g:32005**
Seminar:
Real Singularities ★ Real analytic and algebraic singularities. **98i:32001**
Singularities and Complex Geometry ★ Singularities and complex geometry. **98d:32002**
Series of the Mathematical Institute of the University of Münster. Series 3 ★ Schriftenreihe des Mathematischen Instituts der Universität Münster. 3. Serie. Heft 20. (German) [Series of the Mathematical Institute of the University of Münster. Series 3. Vol. 20] **98g:32005**
Singularities and complex geometry ★ Singularities and complex geometry. **98d:32002**
Symposium:
Singularities ★ Real analytic and algebraic singularities. **98i:32001**
Trento ★ Complex analysis and geometry. **98f:32002**

Workshop:
Real and Complex Singularities ★ Real and complex singularities. **98e:32001**
Singularities and the Geometry of Analytic Varieties ★ Real analytic and algebraic singularities. **98i:32001**

Items with secondary classifications in 32–06

(Berrick, A. J.) *see* **Geometry from the Pacific Rim, 98c:00011**
(Dimiev, Stancho) *see* **Topics in complex analysis, differential geometry and mathematical physics, 98c:00017**
(Loo, Bonaventure) *see* **Geometry from the Pacific Rim, 98c:00011**
(Ramirez de Arellano, Enrique) *see* **Operator theory for complex and hypercomplex analysis, 98f:00026**
(Salinas, Norberto) *see* **Operator theory for complex and hypercomplex analysis, 98f:00026**
(Sekigawa, Kouei) *see* **Topics in complex analysis, differential geometry and mathematical physics, 98c:00017**
(Shapiro, M. V.) *see* **Operator theory for complex and hypercomplex analysis, 98f:00026**
(Trotman, David) *see* **Stratifications, singularities and differential equations, 98e:58006** *and* **98e:58007**
(Vakhrameev, S. A.) *see* **Complex analysis. Several variables, 98f:32001**
(Vasilevskiĭ, N. L.) *see* **Operator theory for complex and hypercomplex analysis, 98f:00026**
(Wang, Hong Yu[1]) *see* **Geometry from the Pacific Rim, 98c:00011**
(Wilson, Leslie Charles) *see* **Stratifications, singularities and differential equations, 98e:58006** *and* **98e:58007**

Items listed otherwise than by author

Algebraic analysis methods in microlocal analysis ★ Chōkyokusho kaiseki ni okeru daisū kaisekiteki hōhō. [Algebraic analysis methods in microlocal analysis] **98h:00024**
Complex analysis. Several variables ★ Комплексный анализ. Многие переменные. 7. (Russian) [Complex analysis. Several variables. 7] **98f:32001**
Conference:
Operator Theory for Complex and Hypercomplex Analysis ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Pacific Rim Geometry ★ Geometry from the Pacific Rim. **98c:00011**
Singularities ★ Stratifications, singularities and differential equations. I. **98e:58006**
— ★ Stratifications, singularities and differential equations. II. **98e:58007**
Stratifications and Singularities ★ Stratifications, singularities and differential equations. I. **98e:58006**
— ★ Stratifications, singularities and differential equations. II. **98e:58007**
Contemporary Mathematics ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Geometry from the Pacific Rim ★ Geometry from the Pacific Rim. **98c:00011**
Honolulu, HI ★ Stratifications, singularities and differential equations. I. **98e:58006**
— ★ Stratifications, singularities and differential equations. II. **98e:58007**
Itogi Nauki i Tekhniki ★ Комплексный анализ. Многие переменные. 7. (Russian) [Complex analysis. Several variables. 7] **98f:32001**
Marseille ★ Stratifications, singularities and differential equations. I. **98e:58006**
— ★ Stratifications, singularities and differential equations. II. **98e:58007**
Mexico City ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Operator theory for complex and hypercomplex analysis ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Singapore ★ Geometry from the Pacific Rim. **98c:00011**
St. Konstantin ★ Topics in complex analysis, differential geometry and mathematical physics. **98c:00017**
Stratifications, singularities and differential equations ★ Stratifications, singularities and differential equations. I. **98e:58006**
— ★ Stratifications, singularities and differential equations. II. **98e:58007**
Symposium:
Algebraic Analysis Methods in Microlocal Analysis ★ Chōkyokusho kaiseki ni okeru daisū kaisekiteki hōhō. [Algebraic analysis methods in microlocal analysis] **98h:00024**
Topics in complex analysis, differential geometry and mathematical physics ★ Topics in complex analysis, differential geometry and mathematical physics. **98c:00017**
Workshop:
Complex Structures and Vector Fields ★ Topics in complex analysis, differential geometry and mathematical physics. **98c:00017**

32Axx Holomorphic functions of several complex variables

32A05 Power series, series of functions

Boas, Harold P. (*with* Khavinson, Dmitry) Bohr's power series theorem in several variables. (English summary) **98i:32002**
Khavinson, Dmitry *see* **Boas, Harold P., 98i:32002**
Yang, Pi Wen The expansions of harmonic functions outside the unit ball in $\mathbf{C}^n$ and Dirichlet boundary value problems for analytic functions on it. (Chinese. English and Chinese summaries) **98e:32002**

Items with secondary classifications in 32A05

Grinshpan, A. Z. On the Goodman conjecture and related functions of several complex variables. (English summary) **98k:30016**

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

Shimizu, Satoru[1] Holomorphic equivalence problem for two-dimensional tube domains with polynomial infinitesimal automorphisms. **98g:32006**

Items with secondary classifications in 32A07

Aizenberg, L. A. New results on the free boundary problem and generalization of the Hartogs-theorem for CR functions. (English summary) **98d:32015**
Backlund, Ulf (*with* Fällström, Anders) The Gleason property for Reinhardt domains. **98d:32018**
Berteloot, Francois (*with* Pinchuk, S.) A splitting property for proper holomorphic mappings between Reinhardt domains. (English summary) **98c:32033**
Chen, Xiaoman *see* **Xu, Shengzhi; et al., 98c:46155**
Fällström, Anders *see* **Backlund, Ulf, 98d:32018**
Francsics, Gábor (*with* Hanges, Nicholas) Asymptotic behavior of the Bergman kernel and hypergeometric functions. (English summary) **98h:32040**
Fu, Siqi Geometry of Reinhardt domains of finite type in $\mathbf{C}^2$. (English summary) **98i:32037**
Hamada, Hidetaka Proper holomorphic self mappings of some Reinhardt domains in $\mathbf{C}^n$. (English summary) **98h:32047**
Hanges, Nicholas *see* **Francsics, Gábor, 98h:32040**
Isaev, A. V. (*with* Krantz, Steven G.) Finitely smooth Reinhardt domains with non-compact automorphism group. **98i:32054**
Jakóbczak, Piotr The exceptional sets for holomorphic functions in Hartogs domains. (English summary) **98e:32016**
Jarnicki, Marek (*with* Pflug, Peter) On n-circled $\mathscr{H}^\infty$-domains of holomorphy. (English summary) **98h:32016**
Kamimoto, Joe Asymptotic expansion of the Bergman kernel for weakly pseudoconvex tube domains. **98k:32035**
Kodama, Akio Characterizations of generalized complex ellipsoids in $\mathbf{C}^n$ from the viewpoint of biholomorphic automorphisms. **98f:32022**
Kohr, Gabriela (*with* Kohr-Ile, Mirela) Certain partial differential subordinations on some Reinhardt domains in $\mathbf{C}^n$. **98a:32032**
Kohr-Ile, Mirela *see* **Kohr, Gabriela, 98a:32032**
Krantz, Steven G. Survey of some recent ideas concerning automorphism groups of domains. (English summary) **98i:32055**
— *see also* **Isaev, A. V., 98i:32054**
Mirotin, A. R. The Paley-Wiener theorem for cones in locally compact abelian groups. (Russian) **98e:43002**
Pflug, Peter *see* **Jarnicki, Marek, 98h:32016**
Pinchuk, S. *see* **Berteloot, Francois, 98c:32033**
Shimizu, Satoru[1] Automorphisms of tube domains. **98g:32059**
Tong, Wu Group-invariant functions and invariant Kähler metrics on a class of Reinhardt domains. (Chinese. English and Chinese summaries) **98a:32009**
— Analytic self-homeomorphisms derived from an arbitrary invariant Kähler metric on a class of Reinhardt domains. (Chinese. English and Chinese summaries) **98c:32047**
Volchkov, V. V. Multipliers of power series on Reinhardt domains and their application. (Russian. English summary) **98k:32007**
Xu, Shengzhi (*with* Chen, Xiaoman; Yan, Shaozong) Toeplitz C^*-algebra over the L-shaped domain in $\mathbf{C}^n$. (English summary) **98c:46155**
Yan, Shaozong *see* **Xu, Shengzhi; et al., 98c:46155**

32A10 Holomorphic functions

Abe, Yukitaka Universal holomorphic functions in several variables. (English summary) **98e:32003**
Jakóbczak, Piotr Highly nonintegrable functions in the unit ball. (English summary) **98b:32002**
Lou, Zeng Jian Fractional derivatives of holomorphic functions on bounded symmetric domains of $\mathbf{C}^n$. (English summary) **98a:32002**
Pestana, Domingo (*with* Rodríguez García, José Manuel) Capacity distortion by inner functions in the unit ball of $\mathbf{C}^n$. **98i:32003**
Ren, Guang Bin (*with* Shi, Ji Huai) Inequalities of Hardy-Littlewood type and their applications. (Chinese. Chinese summary) **98k:32003**
Rodríguez García, José Manuel *see* **Pestana, Domingo, 98i:32003**
Shi, Ji Huai *see* **Ren, Guang Bin, 98k:32003**

Items with secondary classifications in 32A10

Adachi, Kenzō Continuation of holomorphic functions from subvarieties. **98c:32014**
Aizenberg, L. A. (*with* Liflyand, E. R.) Mean-value characterization of holomorphic and pluriharmonic functions. (English summary) **98g:32021**
Bloom, Thomas (*with* Calvi, Jean-Paul) Kergin interpolants of holomorphic functions. (English summary) **98h:32021**
Calvi, Jean-Paul *see* **Bloom, Thomas, 98h:32021**
Chang, Chiu-Cheng On a class of Pólya property preserving operators. (English summary) **98i:30054**
Cynk, Sławomir On separately holomorphic functions. **98g:32013**
Deckelman, S. M. Failure of Privalov's theorem on flat $C^{2-\epsilon}$ curves in the unit ball of $\mathbf{C}^2$. (English summary) **98f:32007**
Dzhuraev, Abdukhamid Dzhuraevich On linear boundary value problems in the unit ball of $\mathbf{C}^n$. (English summary) **98d:35161**
Kajiwara, Joji Global existence of holomorphic solutions of differential equations with complex parameters. (English summary) **98d:35006**
Liflyand, E. R. *see* **Aizenberg, L. A., 98g:32021**
Napalkov, V. V., Jr. (*with* Popēnov, S. V.) On the Laplace transform of functionals in a weighted Bergman space of entire functions in $\mathbf{C}^n$. (Russian) **98c:46053**
Ohsawa, Takeo On the extension of L^2 holomorphic functions. IV. A new density concept. **98f:32011**
Popēnov, S. V. *see* **Napalkov, V. V., Jr., 98c:46053**
Yang, Pi Wen The Dirichlet problem for analytic functions and pluriharmonic functions on the unit ball in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **98a:32014**

32A15 Entire functions

Chakraborty, B. C. (*with* Chanda, Rita) A class of entire functions of bounded index in several complex variables. (English summary) **98h:32004**
Chanda, Rita *see* **Chakraborty, B. C., 98h:32004**

Khabibullin, B. N. On nullsets for classes of entire functions and on a representation of meromorphic functions. (Russian. Russian summary) **98c:32001**
Yulmukhametov, R. S. Entire functions of several variables with given behavior at infinity. (Russian. Russian summary) **98a:32003**

Items with secondary classifications in 32A15

Berenstein, Carlos A. $\mathcal{D}$-modules and exponential polynomials. **98d:32010**
Boiti, C. (*with* Nacinovich, Mauro) The overdetermined Cauchy problem. (English and French summaries) **98a:35095**
Bonet, José (*with* Melikhov, S. N.) Interpolation of entire functions and projective descriptions. (English summary) **98f:32015**
Li, Bao Qin Uniqueness of entire functions sharing four small functions. (English summary) **98m:32001**
Melikhov, S. N. *see* **Bonet, José**, **98f:32015**
Nacinovich, Mauro *see* **Boiti, C.**, **98a:35095**
Traore, Abou Sur la factorisation des fonctions polyanalytiques de p variables ($p \geq 1$). (French summary) [Factorization of p-variate polyanalytic functions ($p \geq 1$)] **98b:32005**

32A17 Special families of functions (e.g. normal families)

Godula, Janusz (*with* Starkov, Viktor V.) Linearly invariant families of functions that are analytic in a polydisk. (Russian. Russian summary) **98c:32002**
— (*with* Starkov, Viktor V.) Linearly invariant families of holomorphic functions in the unit polydisc. (English summary) **98j:32001**
Joseph, James E. (*with* Kwack, Myung H.) Extension and convergence theorems for families of normal maps in several complex variables. (English summary) **98a:32004**
Kwack, Myung H. *see* **Joseph, James E.**, **98a:32004**
Starkov, Viktor V. *see* **Godula, Janusz**, **98c:32002** *and* **98j:32001**

Items with secondary classifications in 32A17

Chang, Chiu-Cheng On a class of Pólya property preserving operators. (English summary) **98i:30054**

32A20 Meromorphic functions

Hu, Pei-Chu (*with* Yang, Chung-Chun) Further results on factorization of meromorphic solutions of partial differential equations. (English summary) **98f:32003**
Yang, Chung-Chun *see* **Hu, Pei-Chu**, **98f:32003**

Items with secondary classifications in 32A20

Dingoyan, Pascal Fonctions méromorphes sur un ouvert localement pseudoconvexe étalé au-dessus d'une variété projective. (English and French summaries) [Meromorphic functions on a locally pseudoconvex domain spread over a projective manifold] **98e:32021**

32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30.}

Li, Bao Qin Uniqueness of entire functions sharing four small functions. (English summary) **98m:32001**

Items with secondary classifications in 32A22

Chakraborty, B. C. (*with* Chanda, Rita) A class of entire functions of bounded index in several complex variables. (English summary) **98h:32004**
Chanda, Rita *see* **Chakraborty, B. C.**, **98h:32004**
Hu, Pei-Chu (*with* Yang, Chung-Chun) Further results on factorization of meromorphic solutions of partial differential equations. (English summary) **98f:32003**
Ru, Min On a general form of the second main theorem. (English summary) **98c:32031**
Yang, Chung-Chun *see* **Hu, Pei-Chu**, **98f:32003**
Yulmukhametov, R. S. Entire functions of several variables with given behavior at infinity. (Russian. Russian summary) **98a:32003**

32A25 Integral representation

Hu, Ji Cheng A Plemelj formula for Bochner-Martinelli integrals. (Chinese. Chinese summary) **98f:32004**
Jouenne, Corinne Équations de Cauchy-Riemann dans une famille de convexes de type fini. (English and French summaries) [Cauchy-Riemann equations in a family of convex domains of finite type] **98i:32004**
Lin, Liang Yu Leray formulas with locally holomorphic kernels on bounded domains and their applications. (Chinese. English and Chinese summaries) **98c:32003**
— Bochner-Martinelli formula with discrete holomorphic kernel. **98i:32005**
— Integral representations with finite discrete kernels on unions of circular domains and their applications. (Chinese. English and Chinese summaries) **98e:32004**
Sabadini, Irene (*with* Struppa, Daniele C.) Fourier analysis in several complex variables. (Italian. English and Italian summaries) **98k:32004**
Sano, Kimirô Another type of Cauchy's integral formula in complex Clifford analysis. (English summary) **98d:32003**
Shaw, Mei-Chi Integral representations for $\overline{\partial}_b$ in CR manifolds. **98h:32005**
Struppa, Daniele C. *see* **Sabadini, Irene**, **98k:32004**
Xu, Zhong Yi An integral representation with locally holomorphic kernel for smooth functions on bounded domains in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **98d:32004**
Yang, Pi Wen Dirichlet boundary value problems for regular vector functions in the space $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **98f:32005**
— Regular vector functions in $\mathbf{C}^n$. (Chinese. English and Chinese summaries)
Yao, Zong Yuan A Norguet-Ono formula for smooth functions on a bounded domain with a piecewise smooth boundary in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **98b:32003**
— A unified formula for integral representations over bounded domains in $\mathbf{C}^n$ with piecewise smooth boundaries. (Chinese. English and Chinese summaries) **98f:32006**
— *see also* **Zhong, Zhong Luan**, **98e:32005**
Zhong, Tong De Hölder and L^p estimates for $\overline{\partial}_b$ on Stein manifolds. (English and Chinese summaries) **98c:32004**
— The Lewy equation on Stein manifolds. (Chinese. English and Chinese summaries) **98k:32005**
Zhong, Zhong Luan (*with* Yao, Zong Yuan) An integral representation of type I on an analytic polyhedron in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **98e:32005**

Items with secondary classifications in 32A25

Francsics, Gábor (*with* Hanges, Nicholas) Analytic singularities. (English summary) **98i:32036**
Hanges, Nicholas *see* **Francsics, Gábor**, **98i:32036**
Lin, Liang Yu The $\overline{\partial}$-equation on building domains of balls. (Chinese. English and Chinese summaries) **98e:32025**
Schaal, Kristine ★ Lokale Regularität der tangentialen Cauchy-Riemann-Gleichungen auf Rändern komplexer Ellipsoide. (German) [Local regularity of the tangential Cauchy-Riemann equations on boundaries of complex ellipsoids] **98m:32030**

32A27 Local theory of residues [see also 32C30]

Dickenstein, Alicia (*with* Iriondo, Mirta Susana; Rojas, Teresita Alejandra) Integrating singular functions on the sphere. (English summary) **98h:32006**
Gel'fond, O. A. (*with* Khovanskiĭ, A. G.) Newton polyhedra and Grothendieck residues. (Russian) **98b:32004**
Iriondo, Mirta Susana *see* **Dickenstein, Alicia; et al.**, **98h:32006**
Khovanskiĭ, A. G. *see* **Gel'fond, O. A.**, **98b:32004**
Rojas, Teresita Alejandra *see* **Dickenstein, Alicia; et al.**, **98h:32006**

Items with secondary classifications in 32A27

Berenstein, Carlos A. (*with* Yger, Alain) Residue currents and arithmetical applications. **98d:32008**
Cattani, Eduardo (*with* Cox, David A.; Dickenstein, Alicia) Residues in toric varieties. (English summary) **98f:14039**
Cox, David A. *see* **Cattani, Eduardo; et al.**, **98f:14039**
Dickenstein, Alicia *see* **Cattani, Eduardo; et al.**, **98f:14039**
Fabiano, A. (*with* Pucci, Gemma; Yger, Alain) Effective Nullstellensatz and geometric degree for zero-dimensional ideals. **98j:13027**
Norguet, François Résidus: de Poincaré à Leray un siècle de suspense. (English and French summaries) [Residues: from Poincaré to Leray, a century of suspense] **98k:32001**
Pucci, Gemma *see* **Fabiano, A.; et al.**, **98j:13027**
Tsutsui, Toru Interaction of regular singularities in linear propagation. **98g:35008**
Yger, Alain Résidus, courants résiduels et courants de Green. (English summary) [Residues, residual currents and Green currents] **98k:32017**
— *see also* **Berenstein, Carlos A.**, **98d:32008** *and* **Fabiano, A.; et al.**, **98j:13027**
Zhong, Tong De $\overline{\partial}_b$-equation on complex manifolds. (English summary) **98k:32026**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

Deckelman, S. M. Failure of Privalov's theorem on flat $C^{2-\alpha}$ curves in the unit ball of $\mathbf{C}^2$. (English summary) **98f:32007**
Thomas, Pascal J. Necessary conditions for interpolating sequences. (English summary) **98i:32006**
Traore, Abou Sur la factorisation des fonctions polyanalytiques de p variables ($p \geq 1$). (French summary) [Factorization of p-variate polyanalytic functions ($p \geq 1$)] **98b:32005**

Items with secondary classifications in 32A30

Chang, Chiu-Cheng On a class of Pólya property preserving operators. (English summary) **98i:30054**
Curt, Paula First and second differential subordinations in several complex variables. (Romanian summary) **98a:32029**
Godula, Janusz (*with* Starkov, Viktor V.) Linearly invariant families of functions that are analytic in a polydisk. (Russian. Russian summary) **98c:32002**
Gong, Sheng *see* **Yu, Qihuang; et al.**, **98h:32038**
Grinshpan, A. Z. On the Goodman conjecture and related functions of several complex variables. (English summary) **98k:30016**
Guo, Xin *see* **Yu, Qihuang; et al.**, **98h:32038**
Ishchanov, B. Zh. On the representation of solutions of certain classes of equations as potentials of measures distributed on the set of singularities of these solutions. (Russian)
Kohr, Gabriela (*with* Liczberski, Piotr) A starlikeness criterion for holomorphic mappings in the polydisc. **98m:32037**
— (*with* Kohr-Ile, Mirela) Partial differential subordinations for holomorphic mappings of several complex variables. (English and Romanian summaries) **98a:32030**
— (*with* Kohr-Ile, Mirela) Subordination theory for holomorphic mappings of several complex variables. (English summary) **98b:32018**
— On certain conditions of starlikeness of order α in $\mathbf{C}^n$. (English summary) **98j:32021**
— Certain sufficient conditions of almost starlikeness of order $1/2$ on the unit ball in $\mathbf{C}^n$. (English summary) **98k:32032**
— (*with* Kohr-Ile, Mirela) Certain partial differential subordinations on some Reinhardt domains in $\mathbf{C}^n$. **98a:32032**
— On some conditions of spirallikeness in $\mathbf{C}^n$. (English summary) **98e:32048**
— (*with* Liczberski, Piotr) On some criteria of injectivity for complex mappings in the class C^1. (English summary) **98f:30012**

— (*with* Liczberski, Piotr) On some partial differential inequalities for mappings of $\mathscr{C}^1$ class in $\mathbf{C}^n$. (English summary) **98i:32046**
Kohr-Ile, Mirela *see* **Kohr, Gabriela**, **98a:32030**; **98a:32032** *and* **98b:32018**
Liczberski, Piotr Some criteria for Φ-likeness and close-to-starlikeness in $\mathbf{C}^n$. (English summary) **98k:32033**
— *see also* **Kohr, Gabriela**, **98f:30012**; **98i:32046** *and* **98m:32037**
Liu, Taishun (*with* Zhang, Wen Jun) Homogeneous expansions of normalized biholomorphic convex mappings over B^p. (English summary) **98j:32022**
Ren, Guang Bin (*with* Shi, Ji Huai) Inequalities of Hardy-Littlewood type and their applications. (Chinese. Chinese summary) **98k:32003**
Shi, Ji Huai *see* **Ren, Guang Bin**, **98k:32003**
Starkov, Viktor V. *see* **Godula, Janusz**, **98c:32002**
Tsurumi, Kazuyuki Univalent mappings of several complex variables. (Japanese) (*see* **98d:30004**)
Vâjâitu, Viorel Runge theorem in higher dimensions. **98m:32018**
Yu, Qihuang (*with* Gong, Sheng; Guo, Xin) Schwarzian derivative of holomorphic mappings. **98h:32038**
Zhang, Wen Jun *see* **Liu, Taishun**, **98j:32022**

32A35 H^p-spaces [see also 32M15, 42B30, 43A85, 46J15]

Ahern, Patrick (*with* Bruna, Joaquim; Cascante, Carme) H^p-theory for generalized M-harmonic functions in the unit ball. (English summary) **98f:32008**
Bruna, Joaquim *see* **Ahern, Patrick; et al.**, **98f:32008**
Cascante, Carme (*with* Ortega, Joaquín M.) On q-Carleson measures for spaces of $\mathscr{M}$-harmonic functions. (English summary) **98m:32002**
— *see also* **Ahern, Patrick; et al.**, **98f:32008**
Chang, Der-Chen On zero sets of holomorphic functions in Hardy classes. **98c:32005**
Krantz, Steven G. (*with* Li, Song-Ying) Area integral characterizations of functions in Hardy spaces on domains in $\mathbf{C}^n$. (English summary) **98m:32003**
Li, Song-Ying *see* **Krantz, Steven G.**, **98m:32003**
Massaneda, Xavier Random sequences with prescribed radii in the unit ball. (English summary) **98e:32006**
Ortega, Joaquín M. *see* **Cascante, Carme**, **98m:32002**
Ren, Fuyao (*with* Xiao, Jianbin) Bounded projections and duality on spaces of holomorphic functions in the unit ball of $\mathbf{C}^n$. (English summary) **98a:32005**
Ren, Guang Bin (*with* Shi, Ji Huai) Bergman type operator on mixed norm spaces with applications. (English summary) **98k:32006**
Shi, Ji Huai *see* **Ren, Guang Bin**, **98k:32006**
Volchkov, V. V. Multipliers of power series on Reinhardt domains and their application. (Russian. English summary) **98k:32007**
Xiao, Jianbin *see* **Ren, Fuyao**, **98a:32005**

Items with secondary classifications in 32A35

Björn, Anders Removable singularities for Hardy spaces. (English summary) **98k:32018**
Boo, Jörgen The H^p corona theorem in analytic polyhedra. (English summary) **98i:46050**
Carlson, Jon F. (*with* Clark, Douglas N.) Projectivity and extensions of Hilbert modules over $\mathbf{A}(\mathbf{D}^N)$. **98i:46047**
Clark, Douglas N. *see* **Carlson, Jon F.**, **98i:46047**
Jevtić, Miroljub Embedding derivatives of $\mathscr{M}$-harmonic Hardy spaces into Lebesgue spaces. (English summary) **98b:46030**
— Analytic Besov space B^p, $0 < p < 1$. (English summary) **98k:46051**
Krantz, Steven G. (*with* Li, Song-Ying; Rochberg, Richard) Analysis of some function spaces associated to Hankel operators. **98f:46019**
Li, Song-Ying *see* **Krantz, Steven G.**; **et al.**, **98f:46019**
Putinar, Mihai (*with* Wolff, Roland) A natural localization of Hardy spaces in several complex variables. (English summary) **98a:47004**
Rochberg, Richard *see* **Krantz, Steven G.**; **et al.**, **98f:46019**
Wolff, Roland *see* **Putinar, Mihai**, **98a:47004**
Zheng, Dechao Toeplitz operators and Hankel operators on the Hardy space of the unit sphere. (English summary) **98m:47038**
— Commuting Toeplitz operators with pluriharmonic symbols. (English summary) **98i:47027**

32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [see also 46Exx]

Brudnyi, Alexander A Bernstein-type inequality for algebraic functions. (English summary) **98k:32008**
Hahn, K. T. (*with* Youssfi, E. H.) The Bloch space of M-harmonic functions on bounded symmetric domains. (English summary) **98a:32006**
Jevtić, Miroljub A Bergman-Carleson measure characterization of $\mathscr{M}$-harmonic Bloch functions. (English summary) **98c:32006**
— (*with* Massaneda, Xavier; Thomas, Pascal J.) Interpolating sequences for weighted Bergman spaces of the ball. **98c:32007**
Massaneda, Xavier *see* **Jevtić, Miroljub**; **et al.**, **98c:32007**
Thomas, Pascal J. *see* **Jevtić, Miroljub**; **et al.**, **98c:32007**
Wulan, Hasi On the coefficients characterization of BMOA functions on the unit ball. **98e:32007**
Youssfi, E. H. Lipschitz regularity of M-harmonic functions. (English summary) **98k:32009**
— *see also* **Hahn, K. T.**, **98a:32006**

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Aizenberg, L. A. Duality in complex analysis. **98k:46036**
Choe, Boo Rim (*with* Lee, Young Joo) Norm and essential norm estimates of Toeplitz operators on the Bergman space. (English summary) **98e:47042**
Godula, Janusz Generalized Hankel operators on the Bergman space on the unit ball. (English summary) **98j:47060**
Krantz, Steven G. (*with* Li, Song-Ying; Lin, Peng; Rochberg, Richard) The effect of boundary regularity on the singular numbers of Friedrichs operators on Bergman spaces. **98e:47050**
Lee, Young Joo Some characterizations of Bloch type functions. (English summary) **98a:46033**
— *see also* **Choe, Boo Rim**, **98e:47042**
Li, Song-Ying *see* **Krantz, Steven G.**; **et al.**, **98e:47050**
Lin, Peng *see* **Krantz, Steven G.**; **et al.**, **98e:47050**
Mattila, Päivi (*with* Saksman, Eero; Taskinen, Jari) Weighted spaces of harmonic and holomorphic functions: sequence space representations and projective descriptions. (English summary) **98c:46048**
Miao, Jie Toeplitz operators with bounded radial symbols on the harmonic Bergman space of the unit ball. (English summary) **98i:47026**
Napalkov, V. V., Jr. (*with* Popënov, S. V.) On the Laplace transform of functionals in a weighted Bergman space of entire functions in $\mathbf{C}^n$. (Russian) **98c:46053**
Nowak, Maria Hankel operators on the Bergman space of the unit ball. (English summary) **98h:47037**
Ouyang, Caiheng (*with* Riihentaus, Juhani) A characterization of Hardy-Orlicz spaces on $\mathbf{C}^n$. **98f:46020**
Popënov, S. V. *see* **Napalkov, V. V., Jr.**, **98c:46053**
Riihentaus, Juhani *see* **Ouyang, Caiheng**, **98f:46020**
Rochberg, Richard *see* **Krantz, Steven G.**; **et al.**, **98e:47050**
Russo, Bernard Holomorphic composition operators in several complex variables. (English summary) **98m:47047**
Saksman, Eero *see* **Mattila, Päivi**; **et al.**, **98c:46048**
Taskinen, Jari *see* **Mattila, Päivi**; **et al.**, **98c:46048**

32A40 Boundary behavior

Arai, Hitoshi Degenerate elliptic operators, H^1 spaces and diffusions on strongly pseudoconvex domains. (English summary) **98e:32008**
Dovbush, P. V. Boundary behavior of normal holomorphic functions of several complex variables. (English, Russian and Moldavian summaries) **98m:32004**
Dubtsov, E. S. Approximation on the sphere by Besov analytic functions. (English summary) **98c:32008**
Wojtaszczyk, P. On highly nonintegrable functions and homogeneous polynomials. (English summary) **98a:32007**

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Di Biase, Fausto Exotic convergence in theorems of Fatou type. (*see* **98b:31001**)
Pestana, Domingo (*with* Rodriguez Garcia, José Manuel) Capacity distortion by inner functions in the unit ball of $\mathbf{C}^n$. **98i:32003**
Rodriguez Garcia, José Manuel *see* **Pestana, Domingo**, **98i:32003**

32A45 Hyperfunctions [see also 46F15]

Okada, Jun-ichi The existence and the continuation of holomorphic solutions for convolution equations in a half-space in $\mathbf{C}^n$. (English summary) **98m:32005**
Stout, E. L. Harmonic duality, hyperfunctions and removable singularities. (English summary) **98h:32007**

Items with secondary classifications in 32A45

Bastin, F. (*with* Laubin, P.) Singular spectrum and functional properties of kernels. (English summary) **98e:46048**
Fujita, Keiko *see* **Morimoto, Mitsuo**, **98m:46057**
Ito, Yoshifumi Theory of Fourier microfunctions of several types. II. (English summary) **98c:46079**
Laubin, P. *see* **Bastin, F.**, **98e:46048**
Morimoto, Mitsuo (*with* Fujita, Keiko) Analytic functionals on the complex sphere and eigenfunctions of the Laplacian on the Lie ball. **98m:46057**
Stanković, B. Hyperfunctions. **98k:46070**
Vidras, Alekos On holomorphic perturbations of infinite order differential equations. (English summary) **98h:35248**
Zayed, Ahmed I. Wavelet expansions of analytic hyperfunctions. (English summary) **98e:46049**

32A99 None of the above, but in this section

Banerjee, Dibyendu *see* **Lahiri, B. K.**
Lahiri, B. K. (*with* Banerjee, Dibyendu) A note on maximum modulus theorem for several complex variables.
Luminet, Denis Functions of several matrices. (Italian summary) **98i:32007**

Items with secondary classifications in 32A99

Brudnyi, Alexander A Bernstein-type inequality for algebraic functions. (English summary) **98k:32008**
Li, Bao Qin On reduction of functional-differential equations. (English summary) **98d:35227**
Stepanova, I. È. On the solution of some problems in geophysics of mining type by means of the methods of the theory of functions of several complex variables. (Russian. Russian summary) **98k:86022**
Yoo, Yoon Jae Generalized Carleson inequality on the unit ball in $\mathbf{C}^n$. (English summary) **98k:42027**

32Bxx Local analytic geometry [see also 13–XX and 14–XX]

32B05 Analytic algebras and generalizations, preparation theorems

Chaumat, Jacques (*with* Chollet, Anne-Marie) Théorèmes de préparation dans des classes ultradifférentiables. [Preparation theorems in ultradifferentiable classes] **98m:32006**
— (*with* Chollet, Anne-Marie) Caractérisation des anneaux noethériens de séries formelles à croissance controlée. Application à la synthèse spectrale. (English summary) [Characterization of Noetherian rings of formal power series with controlled growth. Application to spectral synthesis] **98k:32010**
Chollet, Anne-Marie *see* **Chaumat, Jacques**, **98k:32010** *and* **98m:32006**
Dimiev, Stancho Problems in almost complex analytic geometry. **98k:32011**
Donati, Leonbattista Sets of convergent power series given by differential conditions. (English summary) **98g:32007**
Fabiano, A. (*with* Pucci, Gemma) Bezout identities with pseudopolynomial entries. (English summary) **98g:32008**
Pucci, Gemma *see* **Fabiano, A.**, **98g:32008**

Items with secondary classifications in 32B05

Briskin, M. (*with* Yomdin, Y.) Algebraic families of analytic functions. I. **98h:34009b**
Françoise, Jean Pierre (*with* Yomdin, Y.) Bernstein inequalities and applications to analytic geometry and differential equations. (English summary) **98h:34009c**
Gérard, Raymond (*with* Tahara, Hidetoshi) A new version of the factorization of a differential equation of the form $F(x, y, \tau y) = 0$. **98b:35008**
Remmert, Reinhold Local theory of complex spaces. (Russian) (*see* **98f:32001**)
Tahara, Hidetoshi *see* **Gérard, Raymond**, **98b:35008**
Yomdin, Y. *see* **Briskin, M.**, **98h:34009b** *and* **Françoise, Jean Pierre**, **98h:34009c**

32B10 Germs of analytic sets

Merle, Michel On some points of local analytic geometry. **98m:32007**

Items with secondary classifications in 32B10

Kobayashi, Masanori (*with* Kuo, Tzee-Char) Uniqueness of unibranched curve in $\mathbf{R}^2$ up to simple blowings up. **98i:14055**
Kuo, Tzee-Char *see* **Kobayashi, Masanori**, **98i:14055**
Taher, Sinane Sur le lieu polaire de morphismes analytiques complexes. (English and French summaries) [On the polar locus of complex analytic morphisms] **98c:32050**

32B15 Analytic subsets of affine space

Bochnak, Jacek (*with* Buchner, M.; Kucharz, Wojciech) Equivalence of analytic and rational functions. (English summary) **98d:32005**
Buchner, M. *see* **Bochnak, Jacek; et al.**, **98d:32005**
Kucharz, Wojciech *see* **Bochnak, Jacek; et al.**, **98d:32005**

Items with secondary classifications in 32B15

Janik, Romuald A. On irreducible components of a Weierstrass-type variety. (English summary) **98h:14022**

32B20 Semi-analytic sets and subanalytic sets [see also 14P15]

Bramaud du Boucheron-Mariaux, Bernadette Existence et domaine de sous-analyticité de la tranche d'une chaîne sous-analytique. (English and French summaries) [Existence and domain of subanalyticity of the slice of a subanalytic chain] **98h:32008**
Cabello Pardos, A. B. (*with* Hajto, Z.) Stratifications adapted to finite families of differential 1-forms (Pfaffian geometry. I). (English summary) **98a:32008**
Hajto, Z. *see* **Cabello Pardos, A. B.**, **98a:32008**
Kurdyka, Krzysztof (*with* Orro, Patrice) Distance géodésique sur un sous-analytique. (French summary) [Geodesic distance on a subanalytic set] **98m:32008**
— (*with* Pawłucki, Wiesław) Subanalytic version of Whitney's extension theorem. (English summary) **98i:32008**
Lion, Jean-Marie (*with* Rolin, Jean-Philippe) Théorème de préparation pour les fonctions logarithmico-exponentielles. (English and French summaries) [Preparation theorem for logarithmic-exponential functions] **98h:32009**
Loi, Ta Lê Thom stratifications for functions definable in o-minimal structures on $(\mathbf{R}, +, \cdot)$. (English and French summaries) **98i:32009**
Łojasiewicz, Stanisław (*with* Tougeron, J.-Cl.; Zurro, M. A.) Éclatement des coefficients des séries entières et deux théorèmes de Gabrielov. (English summary) [Blowup of the coefficients of power series and two theorems of Gabrielov] **98d:32006**
Orro, Patrice *see* **Kurdyka, Krzysztof**, **98m:32008**
Pawłucki, Wiesław *see* **Kurdyka, Krzysztof**, **98i:32008**
Rolin, Jean-Philippe *see* **Lion, Jean-Marie**, **98h:32009**
Tougeron, J.-Cl. Paramétrisations de petits chemins en géométrie analytique réelle. [Parameterizations of small paths in real analytic geometry] **98g:32009**
— *see also* **Łojasiewicz, Stanisław; et al.**, **98d:32006**
Zurro, M. A. *see* **Łojasiewicz, Stanisław; et al.**, **98d:32006**

Items with secondary classifications in 32B20

Hamm, Helmut A. (*with* Mihalache, Nicolae) Deformation retracts of Stein spaces. **98k:32020**
Lion, Jean-Marie (*with* Rolin, Jean-Philippe) Homologie des ensembles semi-pfaffiens. (English and French summaries) [Homology of semi-Pfaffian sets] **98g:32010**
Lipshitz, L. (*with* Robinson, Z.) One-dimensional fibers of rigid subanalytic sets. **98m:32049**
Liu, Nianzheng Analytic cell decomposition and the closure of p-adic semianalytic sets. **98h:03039**
Mihalache, Nicolae *see* **Hamm, Helmut A.**, **98k:32020**
Petureau, Nicole Problème des bords et enveloppe polynomialement convexe. (English and French summaries) [Boundary value problem and polynomially convex hull] **98f:32014**
Robinson, Z. *see* **Lipshitz, L.**, **98m:32049**
Rolin, Jean-Philippe *see* **Lion, Jean-Marie**, **98g:32010**
Schoutens, Hans Closure of rigid semianalytic sets. (English summary) **98m:14054**
Teissier, Bernard Tame and stratified objects. **98k:14080**

32B99 None of the above, but in this section

Kazarnovskiĭ, B. Ya. Exponential analytic sets. (Russian. Russian summary) **98j:32002**
Szafraniec, Zbigniew On the topological degree of real polynomial vector fields. **98d:32007**

32Cxx General theory of analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [see also 14Pxx, 58A07]

Fukui, Toshizumi Seeking invariants for blow-analytic equivalence. (English summary) **98c:32009**
Lion, Jean-Marie (*with* Rolin, Jean-Philippe) Homologie des ensembles semi-pfaffiens. (English and French summaries) [Homology of semi-Pfaffian sets] **98g:32010**
Rolin, Jean-Philippe *see* **Lion, Jean-Marie**, **98g:32010**

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Bochnak, Jacek (*with* Kucharz, Wojciech) Complete intersections in differential topology and analytic geometry. (Italian summary) **98b:57045**
Kucharz, Wojciech *see* **Bochnak, Jacek**, **98b:57045**
Lion, Jean-Marie (*with* Rolin, Jean-Philippe) Théorème de préparation pour les fonctions logarithmico-exponentielles. (English and French summaries) [Preparation theorem for logarithmic-exponential functions] **98h:32009**
Mourtada, Abderaouf (*with* Moussu, Robert) Applications de Dulac et applications pfaffiennes. (English and French summaries) [Dulac maps and Pfaffian maps] **98j:34048**
Moussu, Robert *see* **Mourtada, Abderaouf**, **98j:34048**
Rolin, Jean-Philippe *see* **Lion, Jean-Marie**, **98h:32009**
Shon, Kwang Ho On Riemann domains containing a certain real domain. (English summary) **98i:32018**

32C10 Complex manifolds {For almost complex manifolds, see 53C15.}

Items with secondary classifications in 32C10

Cordero, Luis A. (*with* Fernández, Marisa; Ugarte, Luis; Gray, Alfred) A general description of the terms in the Frölicher spectral sequence. (English summary) **98m:53092**
Fernández, Marisa *see* **Cordero, Luis A.; et al.**, **98m:53092**
Gray, Alfred *see* **Cordero, Luis A.; et al.**, **98m:53092**
Kato, Masahide[1] Compact quotient manifolds of domains in a complex 3-dimensional projective space and the Lebesgue measure of limit sets. (English summary) **98a:32038**
Ugarte, Luis *see* **Cordero, Luis A.; et al.**, **98m:53092**
Winkelmann, Jörg Complex parallelizable manifolds. **98g:32055**

32C11 Complex supergeometry [see also 14A22, 14M30, 58A50]

Belopolsky, Alexander De Rham cohomology of the supermanifolds and superstring BRST cohomology. (English summary) **98m:32009**
Bunegina, V. A. (*with* Onishchik, A. L.) Homogeneous supermanifolds associated with the complex projective line. **98c:32010**
Konechnyĭ, Anatoliĭ (*with* Schwarz, Albert S.) Geometry of $N = 1$ super Yang-Mills theory in curved superspace. (English summary) **98g:32011**
Onishchik, A. L. *see* **Bunegina, V. A.**, **98c:32010**
Schwarz, Albert S. *see* **Konechnyĭ, Anatoliĭ**, **98g:32011**

Items with secondary classifications in 32C11

El Gradechi, Amine M. (*with* Nieto, Luis M.) Supercoherent states, super-Kähler geometry and geometric quantization. (English summary) **98c:58064**
Nieto, Luis M. *see* **El Gradechi, Amine M.**, **98c:58064**
Onishchik, A. L. Flag supermanifolds, their automorphisms and deformations. **98c:58005**
Platonova, O. V. On homogeneous supervarieties of dimension 2|2. (Russian) **98d:14065**

32C15 Complex spaces

Cynk, Sławomir On Bertini-type theorem for weakly-normal complex analytic sets. **98g:32012**
— On separately holomorphic functions. **98g:32013**
Dethloff, Gerd-E. (*with* Grauert, Hans) Seminormal complex spaces. (Russian) (*see* **98f:32001**)
Grauert, Hans *see* **Dethloff, Gerd-E.**, (**98f:32001**)
Jurchescu, Martin (*with* Spallek, Karlheinz; Succi, Francesco) DC-spaces (double complex spaces). (English summary) **98k:32012**
Remmert, Reinhold Local theory of complex spaces. (Russian) (*see* **98f:32001**)
Spallek, Karlheinz *see* **Jurchescu, Martin; et al.**, **98k:32012**
Succi, Francesco *see* **Jurchescu, Martin; et al.**, **98k:32012**

Items with secondary classifications in 32C15

Kazama, Hideaki (*with* Ohta, Tomoaki; Shon, Kwang Ho) Vanishing, non-vanishing and imbedding theorems on weakly pseudoconvex complex spaces. **98g:32056**
Ohta, Tomoaki *see* **Kazama, Hideaki; et al.**, **98g:32056**
Shon, Kwang Ho *see* **Kazama, Hideaki; et al.**, **98g:32056**

32C16 CR-manifolds

Baracco, Luca (*with* Zampieri, Giuseppe) Analytic discs attached to manifolds with boundary. **98m:32010**
Barletta, Elisabetta (*with* Dragomir, Sorin) New CR invariants and their application to the CR equivalence problem. **98h:32010**
Boivin, André (*with* Dwilewicz, Roman) Extension and approximation of CR functions on tube manifolds. (English summary) **98h:32011**
Domrin, A. V. On the spanning of maximally complex cycles by CR-submanifolds. (Russian) **98m:32011**
Dragomir, Sorin *see* **Barletta, Elisabetta, 98h:32010**
Dwilewicz, Roman *see* **Boivin, André, 98h:32011**
Epstein, Charles L. (*with* Khenkin, G. M.) Extension of CR-structures for 3-dimensional pseudoconcave manifolds. (English summary) **98h:32012**
Flondor, Paul (*with* Pascu, Eugen) Foliations of mixed manifolds. (English and Romanian summaries) **98b:32006**
Garrity, Thomas (*with* Mizner, Robert) Vector-valued forms and CR geometry. **98k:32013**
Hill, C. Denson (*with* Nacinovich, Mauro) On the Cauchy problem in complex analysis. **98h:32013**
Khenkin, G. M. *see* **Epstein, Charles L., 98h:32012**
Luk, Hing Sun (*with* Yau, Stephen S.-T.) Some remarks on compact strongly pseudoconvex CR manifolds. **98j:32003**
— (*with* Yau, Stephen S.-T.) Complete algebraic CR invariants of real codimension 3 strongly pseudoconvex CR manifolds. **98m:32012**
Marchioni, Giovanna Complex sections in conormal bundles to real submanifolds of $\mathbf{C}^n$. **98b:32007**
Mizner, Robert *see* **Garrity, Thomas, 98k:32013**
Nacinovich, Mauro *see* **Hill, C. Denson, 98h:32013**
Pascu, Eugen *see* **Flondor, Paul, 98b:32006**
Shiga, Kiyoshi (*with* Takeuchi, Shigeru) CR tensor product. (English summary) **98g:32014**
Spiro, Andrea F. Smooth real hypersurfaces in $\mathbf{C}^n$ with a non-compact isotropy group of CR transformations. (English summary) **98k:32014**
Takeuchi, Shigeru On tensor products and dual spaces of CR vector spaces. (English summary) **98k:32015**
— *see also* **Shiga, Kiyoshi, 98g:32014**
Yau, Stephen S.-T. *see* **Luk, Hing Sun, 98j:32003** *and* **98m:32012**
Zampieri, Giuseppe Microlocal complex foliation of $\mathbf{R}$-Lagrangian CR submanifolds. (English summary) **98g:32015**
— *see also* **Baracco, Luca, 98m:32010**

Items with secondary classifications in 32C16

Barletta, Elisabetta (*with* Dragomir, Sorin) On the spectrum of a strictly pseudoconvex CR manifold. **98m:32029**
— (*with* Dragomir, Sorin) Transversally CR foliations. (English and Italian summaries) **98m:53037**
Berhanu, S. On extreme points and the strong maximum principle for CR functions. (English summary) **98e:32027**
D'Agnolo, Andrea (*with* Zampieri, Giuseppe) On microfunctions at the boundary along CR manifolds. (English summary) **98a:58149**
Dragomir, Sorin A survey of pseudo-Hermitian geometry. **98m:53041**
— *see also* **Barletta, Elisabetta, 98m:32029** *and* **98m:53037**
Ezhov, V. V. (*with* Schmalz, Gerd) Normal form and two-dimensional chains of an elliptic CR manifold in $\mathbf{C}^4$. (English summary) **98m:32025**
Hirachi, Kengo Invariants of CR structures and the logarithmic singularity of the Bergman kernel. **98i:32038**
Kuranishi, Masatake CR structures and Fefferman's conformal structures. (English summary) **98h:32028**
Kytmanov, A. M. On removable singularities of integrable CR functions given on CR manifolds. **98h:32018**
Laurent-Thiébaut, Christine ★ Théorie des fonctions holomorphes de plusieurs variables. (French) [Theory of holomorphic functions of several variables] **98g:32001**
Repetto, Cinzia Transversally CR-pluriharmonic functions. (English summary) **98e:32030**
Schaal, Kristine ★ Lokale Regularität der tangentialen Cauchy-Riemann-Gleichungen auf Rändern komplexer Ellipsoide. (German) [Local regularity of the tangential Cauchy-Riemann equations on boundaries of complex ellipsoids] **98m:32030**
Schmalz, Gerd *see* **Ezhov, V. V., 98m:32025**
Zampieri, Giuseppe Analytic discs attached to conormal bundles of CR-manifolds. (English summary) **98f:32018**
— *see also* **D'Agnolo, Andrea, 98a:58149**

32C17 Kähler geometry {For differential-geometric methods see 53C55.}

Gong, Sheng (*with* Yu, Qihuang; Na, Jisheng) Schwarzian derivative in Kähler manifolds. II. (English summary) **98g:32016**
Na, Jisheng *see* **Gong, Sheng; et al., 98g:32016**
Tong, Wu Group-invariant functions and invariant Kähler metrics on a class of Reinhardt domains. (Chinese. English and Chinese summaries) **98a:32009**
— The holomorphic sectional curvatures of a class of egg domains. (Chinese. English and Chinese summaries) **98k:32016**
Verbitsky, Misha Desingularization of singular hyper-Kähler varieties. I. (English summary) **98e:32009**
Yu, Qihuang *see* **Gong, Sheng; et al., 98g:32016**

Items with secondary classifications in 32C17

Arapura, Donu Geometry of cohomology support loci for local systems. I. **98m:32043**
Bar-Moshe, D. (*with* Marinov, Michael) Berezin quantization and unitary representations of Lie groups. (English summary) **98a:81091**
Bordemann, Martin (*with* Waldmann, Stefan) A Fedosov star product of the Wick type for Kähler manifolds. (English summary) **98h:58069**
Bourguignon, Jean-Pierre Eugenio Calabi and Kähler metrics. **98d:53096**
Campana, Frédéric Connexité abélienne des variétés kählériennes compactes. (English and French summaries) [Abelian connectedness of compact Kähler manifolds] **98m:32044**
Chen, Jingyi (*with* Li, Song-Ying) Holomorphic extensions of maps from the boundary of Kähler manifolds. (English summary) **98k:32025**
Cortés Suárez, Vicente Homogeneous special geometry. (English summary) **98a:53064**
— On hyper-Kähler manifolds associated to Lagrangian Kähler submanifolds of $T^*\mathbf{C}^n$. (English summary) **98k:53059**
Delanoë, Philippe Sur l'analogue presque-complexe de l'équation de Calabi-Yau. [On the almost-complex analogue of the Calabi-Yau equation] **98c:32018**
Heinzner, Peter (*with* Huckleberry, A. T.) Kählerian potentials and convexity properties of the moment map. **98e:58075**
Huckleberry, A. T. *see* **Heinzner, Peter, 98e:58075**
Li, Song-Ying *see* **Chen, Jingyi, 98k:32025**
Marinescu, Gheorghe An application of the Bochner-Kodaira-Nakano formula. **98a:32042**
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Matsumoto, Kazuko Boundary distance functions and q-convexity of locally q-convex domains with corners in Kähler manifolds. **98g:32022**
Swann, Andrew Singular moment maps and quaternionic geometry. **98m:53066**
Takegoshi, Kensho A degeneration of Leray spectral sequence by proper Kähler morphisms. **98g:32057**
Waldmann, Stefan *see* **Bordemann, Martin, 98h:58069**

32C18 Topology of analytic spaces

Burns, Dan (*with* Mazzeo, Rafe) On the geometry of cusps for $SU(n,1)$. **98b:32008**
Mazzeo, Rafe *see* **Burns, Dan, 98b:32008**
Rams, Sławomir Convergence of holomorphic chains. (English summary) **98c:32011**

Items with secondary classifications in 32C18

Chung, I. J. *see* **Keum, Jong Hae, 98e:32032**
Keum, Jong Hae (*with* Chung, I. J.) On fundamental groups of fibered complex manifolds. **98e:32032**

32C20 Normal analytic spaces

Items with secondary classifications in 32C20

Dethloff, Gerd-E. (*with* Grauert, Hans) Seminormal complex spaces. (Russian) (*see* **98f:32001**)
Grauert, Hans *see* **Dethloff, Gerd-E., (98f:32001)**
Remmert, Reinhold Local theory of complex spaces. (Russian) (*see* **98f:32001**)

32C25 Analytic subsets and submanifolds

Items with secondary classifications in 32C25

Janik, Romuald A. On irreducible components of a Weierstrass-type variety. (English summary) **98h:14022**

32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27.}

Berenstein, Carlos A. (*with* Yger, Alain) Residue currents and arithmetical applications. **98d:32008**
Cegrell, Urban (*with* Yamaguchi, Hiroshi[1]) Construction of equilibrium current densities. **98g:32017**
Charpentier, Philippe (*with* Dupain, Yves) Pseudodistances et courants positifs fermés dans les domaines de $\mathbf{C}^3$. [Pseudodistances and closed positive currents in domains in $\mathbf{C}^3$] **98m:32013**
Dolbeault, Pierre Recent progress on holomorphic chains with given boundary. (English summary) **98h:32014**
— (*with* Khenkin, G. M.) Chaînes holomorphes de bord donné dans $\mathbf{CP}^n$. (English and French summaries) [Holomorphic chains with given boundary in $\mathbf{CP}^n$] **98m:32014**
Dupain, Yves *see* **Charpentier, Philippe, 98m:32013**
El Haouzi, Abdallah Courants-traces. [Trace-currents] **98f:32009**
Khenkin, G. M. *see* **Dolbeault, Pierre, 98m:32014**
Yamaguchi, Hiroshi[1] *see* **Cegrell, Urban, 98g:32017**
Yger, Alain Résidus, courants résiduels et courants de Green. (English summary) [Residues, residual currents and Green currents] **98k:32017**
— *see also* **Berenstein, Carlos A., 98d:32008**

Items with secondary classifications in 32C30

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32C35 Analytic sheaves and cohomology groups [see also 14Fxx, 18F20, 55N30]

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Remmert, Reinhold *see* **Peternell, Thomas, (98f:32001)**

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Eschmeier, Jörg (*with* Putinar, Mihai) ★ Spectral decompositions and analytic sheaves. **98h:47002**
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Nacinovich, Mauro *see* **Hill, C. Denson, 98h:32013**
Putinar, Mihai *see* **Eschmeier, Jörg, 98h:47002**
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32C37 Duality theorems

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32C38 Sheaves of differential operators and their modules [see also 14F10, 16S32, 35A27, 58G07]

Assi, A. (*with* Castro-Jiménez, F. J.; Granger, Michel) How to calculate the slopes of a $\mathscr{D}$-module. **98i:32010**
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Coutinho, S. C. (*with* Levcovitz, D.) Involutive varieties with smooth support. (English summary) **98f:32010**
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32C81 Applications to physics

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32Dxx Analytic continuation

32D05 Domains of holomorphy

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32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

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32E10 Stein spaces, Stein manifolds

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32E25 Algebras of holomorphic functions [see also 30H05, 46J10, 46J15]

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32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation

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32E35 Global boundary behavior of holomorphic functions

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32E99 None of the above, but in this section

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32Fxx Geometric convexity, partial differential operators

32F05 Plurisubharmonic functions and generalizations [see also 31C10]

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Hwang, In-Gyu (*with* Kim, Jong Jin; Oh, Chun-Young; Park, Seoung-Hee) The relationships in pluricomplex Green function, Azukawa pseudometric and Sibony pseudometric. (English summary) **98g:32038**
Jurchescu, Martin (*with* Spallek, Karlheinz; Succi, Francesco) DC-spaces (double complex spaces). (English summary) **98k:32012**
Kazama, Hideaki (*with* Ohta, Tomoaki; Shon, Kwang Ho) Vanishing, non-vanishing and imbedding theorems on weakly pseudoconvex complex spaces. **98g:32056**
Kim, Jong Jin *see* **Hwang, In-Gyu; et al., 98g:32038**
Oh, Chun-Young *see* **Hwang, In-Gyu; et al., 98g:32038**
Ohta, Tomoaki *see* **Kazama, Hideaki; et al., 98g:32056**
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Peternell, Thomas Pseudoconvexity, the Levi problem and vanishing theorems. (Russian) (*see* **98f:32001**)
Pucci, Gemma *see* **Fabiano, A., 98g:32008**
Shon, Kwang Ho *see* **Kazama, Hideaki; et al., 98g:32056**
Siciak, Józef A remark on Tchebysheff polynomials in $\mathbf{C}^N$. (English summary) **98d:32019**
Spallek, Karlheinz *see* **Jurchescu, Martin; et al., 98k:32012**
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Zeriahi, Ahmed Pluricomplex Green functions and the Dirichlet problem for the complex Monge-Ampère operator. **98i:32022**

32F07 Complex Monge-Ampère operator

Ben Abdesselem, Adnène (*with* Cherrier, Pascal) Équations de type Monge-Ampère sur certaines variétés de Fano. (English and French summaries) [Monge-Ampère equations on certain Fano manifolds] **98h:32023**
— Équations de Monge-Ampère d'origine géométrique sur certaines variétés algébriques. (English summary) [Monge-Ampère equations of geometric origin on certain algebraic varieties] **98i:32020**
Blocki, Zbigniew The complex Monge-Ampère operator in hyperconvex domains. **98j:32009**
Cegrell, Urban (*with* Persson, Leif) An energy estimate for the complex Monge-Ampère operator. (English summary) **98i:32021**
Celik, Halil Ibrahim (*with* Poletsky, Evgeny A.) Fundamental solutions of the complex Monge-Ampère equation. (English summary) **98m:32021**
Cherrier, Pascal *see* **Ben Abdesselem, Adnène, 98h:32023**
Delanoë, Philippe Sur l'analogue presque-complexe de l'équation de Calabi-Yau. [On the almost-complex analogue of the Calabi-Yau equation] **98c:32018**
Kan, Su-Jen On the characterization of Grauert tubes covered by the ball. **98j:32010**
Kolodziej, Slawomir Some sufficient conditions for solvability of the Dirichlet problem for the complex Monge-Ampère operator. (English summary) **98a:32015**
Persson, Leif *see* **Cegrell, Urban, 98i:32021**
Poletsky, Evgeny A. *see* **Celik, Halil Ibrahim, 98m:32021**
Zeriahi, Ahmed Pluricomplex Green functions and the Dirichlet problem for the complex Monge-Ampère operator. **98i:32022**

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Abate, Marco (*with* Patrizio, Giorgio) Finsler metrics of constant curvature and the characterization of tube domains. **98c:32036**
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Wang, Wei[11] Estimate of the Einstein-Kähler metric on a weakly pseudoconvex domain in $\mathbf{C}^2$. **98c:32040**

32F10 q-convexity, q-concavity

Colţoiu, Mihnea q-convexity. A survey. **98j:32011**
Grauert, Hans Theory of q-convexity and q-concavity. (Russian) (*see* **98f:32001**)
Matsumoto, Kazuko Boundary distance functions and q-convexity of locally q-convex domains with corners in Kähler manifolds. **98g:32022**
Miyazawa, Kazuhisa On the $\overline{\partial}$-cohomology groups of strongly q-concave manifolds. **98g:32023**
Vâjâitu, Viorel Cohomological q-convexity in projective manifolds. **98g:32024**
— Cohomology groups of locally q-complete morphisms with r-complete base. **98c:32019**

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Asserda, S. Convexité holomorphe intermédiaire des revêtements d'un domaine pseudo-convexe. (English summary) [Intermediate holomorphic convexity of coverings of a pseudoconvex domain] **98h:32052**
Campana, Frédéric (*with* Peternell, Thomas) Cycle spaces. (Russian) (*see* **98f:32001**)
Chen, Jingyi (*with* Li, Song-Ying) Holomorphic extensions of maps from the boundary of Kähler manifolds. (English summary) **98k:32025**
Colţoiu, Mihnea On Barth's conjecture concerning $H^{n-1}(\mathbf{P}^n \setminus A, \mathscr{F})$. **98d:32009**
Li, Song-Ying *see* **Chen, Jingyi, 98k:32025**
Marinescu, Gheorghe An application of the Bochner-Kodaira-Nakano formula. **98a:32042**
Ohgai, Seiko Cohomology vanishing and q-convex functions on infinite-dimensional domains. (English summary) **98k:46075**
Peternell, Thomas *see* **Campana, Frédéric, (98f:32001)**
Polyakov, P. L. Sharp estimates for operator $\overline{\partial}_M$ on a q-concave CR manifold. (English summary) **98h:32025**
Vâjâitu, Viorel On $\mathscr{P}$-morphisms of complex spaces. **98i:32034**
— Locally q-complete open sets in Stein spaces with isolated singularities. **98h:32019**
Whittlesey, Marshall A. Polynomial hulls with disk fibers over the ball in $\mathbf{C}^2$. **98i:32015**

32F15 Pseudoconvex domains

Chirka, E. M. (*with* Shcherbina, N. V.) Pseudoconvexity of rigid domains and foliations of hulls of graphs. **98f:32016**
Dingoyan, Pascal Fonctions méromorphes sur un ouvert localement pseudoconvexe étalé au-dessus d'une variété projective. (English and French summaries) [Meromorphic functions on a locally pseudoconvex domain spread over a projective manifold] **98c:32021**
Fu, Siqi (*with* Wong, Bun) On strictly pseudoconvex domains with Kähler-Einstein Bergman metrics. **98m:32022**
— (*with* Wong, Bun) On boundary accumulation points of a smoothly bounded pseudoconvex domain in $\mathbf{C}^2$. **98j:32012**
Pang, Myung-Yull Pseudoconvex domains in $\mathbf{C}^2$ with convexifiable boundary around an extremal disk. **98m:32023**
Reimann, H. M. Quasiconformal mappings and pseudoconvex domains. **98d:32020**

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Shon, Kwang Ho On pseudoconvex neighborhoods of real subspaces. (English summary) **98e:32022**
Tsuji, Miki On a problem of Ohsawa. **98d:32021**
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Yi, Jeong Seon A Kohn-Nirenberg example using lower degree. (English summary) **98a:32016**

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Coupet, Bernard (*with* Sukhov, A. B.) On CR mappings between pseudoconvex hypersurfaces of finite type in $\mathbf{C}^2$. **98d:32031**
Fadlalla, Adib A. Transfer of estimates from convex to strongly pseudoconvex domains in $\mathbf{C}^n$. (English summary) **98e:32042**
Gaussier, Hervé Characterization of convex domains with noncompact automorphism group. **98j:32040**
Ho, Lop-Hing Application of Catlin's box construction to subellipticity of $n-1$ forms. **98a:32017**
Kołodziej, Sławomir Some sufficient conditions for solvability of the Dirichlet problem for the complex Monge-Ampère operator. (English summary) **98a:32015**
McNeal, Jeffery D. Scaling and holomorphic projections on convex domains. **98g:32035**
— (*with* Stein, Elias M.) The Szegö projection on convex domains. **98f:32023**
Mueller, Carl D. Local patching for convex sets in $\mathbf{C}^n$. (English summary) **98i:32014**
Słodkowski, Zbigniew An open mapping theorem for analytic multifunctions. (English summary) **98a:32012**
Stein, Elias M. *see* **McNeal, Jeffery D., 98f:32023**
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Symesak, F. Hankel operators on complex ellipsoids. **98m:47035**
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32F20 $\overline{\partial}$- and $\overline{\partial}_b$-Neumann problems [see also 35N15]

Adachi, Kenzō (*with* Cho, Hong Rae) L^p $(1 \le p \le \infty)$ estimates for $\overline{\partial}$ on a certain pseudoconvex domain in $\mathbf{C}^n$. (English summary) **98j:32013**
Ahn, Heungju *see* **Cho, Sanghyun; et al., 98j:32014**
Catlin, David W. (*with* D'Angelo, John P.) Positivity conditions for bihomogeneous polynomials. **98e:32023**
Cho, Hong Rae *see* **Adachi, Kenzō, 98j:32013**
Cho, Sanghyun (*with* Ahn, Heungju; Kim, Seongyeon) Stability of Hölder estimates for $\overline{\partial}$ on pseudoconvex domains of finite type in $\mathbf{C}^2$. (English summary) **98j:32014**
— On the Mergelyan approximation property on pseudoconvex domains in $\mathbf{C}^n$. (English summary) **98j:32015**
D'Angelo, John P. *see* **Catlin, David W., 98e:32023**
Derridj, Makhlouf Analyticité globale de la solution canonique de $\overline{\partial}_b$ pour une classe d'hypersurfaces compactes pseudoconvexes de $\mathbf{C}^2$. [Global analyticity of the canonical solution of $\overline{\partial}_b$ for a class of pseudoconvex compact hypersurfaces in $\mathbf{C}^2$] **98j:32016**
Fàbrega, Joan *see* **Ortega, Joaquin M., 98b:32011**
Ho, Lop-Hing Application of Catlin's box construction to subellipticity of $n-1$ forms. **98a:32017**
Honda, Tatsuhiro The existence of solutions of the $\overline{\partial}$-problem on an infinite-dimensional Riemann domain. (English summary) **98g:32025**
Iordan, Andrei *see* **Khenkin, G. M., 98a:32018**
Kajiwara, Joji (*with* Parihar, Champa Lal; Raffee, Vadla Mohammad; Tsuji, Miki) Numerical analysis on $\overline{\partial}$-problem and extension of holomorphic functions from lower-dimensional subvarieties. (English summary) **98e:32024**
Khenkin, G. M. (*with* Iordan, Andrei) Compactness of the Neumann operator for hyperconvex domains with non-smooth B-regular boundary. **98a:32018**
Kim, Seongyeon *see* **Cho, Sanghyun; et al., 98j:32014**
Leiterer, Jürgen From local to global homotopy formulas for $\overline{\partial}$ and $\overline{\partial}_b$. **98d:32022**
Lin, Liang Yu The $\overline{\partial}$-equation on building domains of balls. (Chinese. English and Chinese summaries) **98e:32025**
Ma, Zhong Tai The explicit solutions of $C^{k+\alpha}_{p,q}$-form for the $\overline{\partial}$-equations on pseudoconvex open sets. (English summary) **98d:32023a**
— Solutions of $C^{k+\alpha}_{p,q}$ form for the $\overline{\partial}$ equation and their sup-norm estimates. (Chinese. English and Chinese summaries) **98d:32023b**
Menini, Chantal Estimations pour la résolution du $\overline{\partial}$ sur une intersection d'ouverts strictement pseudoconvexes. (French summary) [Estimates for the solution of $\overline{\partial}$ on an intersection of strictly pseudoconvex domains] **98h:32024**
Ortega, Joaquin M. (*with* Fàbrega, Joan) Weighted Sobolev spaces in complex ellipsoids. **98b:32011**
Parihar, Champa Lal *see* **Kajiwara, Joji; et al., 98e:32024**
Polyakov, P. L. Sharp estimates for operator $\overline{\partial}_M$ on a q-concave CR manifold. (English summary) **98h:32025**
Raffee, Vadla Mohammad *see* **Kajiwara, Joji; et al., 98e:32024**
Range, R. Michael Singular integral operators in the $\overline{\partial}$ theory on convex domains in $\mathbf{C}^n$. (English summary) **98k:32022**
Scalari, Alberto A remark on semiglobal existence for $\overline{\partial}$. (English summary) **98h:32026**
Straube, Emil J. Plurisubharmonic functions and subellipticity of the $\overline{\partial}$-Neumann problem on non-smooth domains. **98m:32024**
Tsuji, Miki *see* **Kajiwara, Joji; et al., 98e:32024**
Zhong, Tong De Homotopy formulas and $\overline{\partial}$-equation on local q-convex domains in Stein manifolds. (English summary) **98i:32023**

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Cho, Hong Rae Holomorphic approximation and holomorphic convexity on pseudoconvex complex manifolds. (English summary) **98k:32019**
Cho, Sanghyun Estimates on the Bergman kernels on some domains in $\mathbf{C}^n$. **98e:32041**
Darko, Patrick Corrigendum: "The L^2 $\overline{\partial}$-problem on manifolds with piecewise strictly pseudoconvex boundaries" [Math. Proc. Cambridge Philos. Soc. **116** (1994), no. 1, 147–149; MR 95b:32027]. **98k:32024**
Derridj, Makhlouf La sous-ellipticité pour le problème $\overline{\partial}$-Neumann dans un domaine pseudoconvexe de $\mathbf{C}^n$ (d'après D. Catlin). (French summary) [Subellipticity of the $\overline{\partial}$-Neumann problem in a pseudoconvex domain in $\mathbf{C}^n$ (after D. Catlin)] **98d:35160**
Gromov, Mikhael L. (*with* Khenkin, G. M.; Shubin, Mikhail) L^2 holomorphic functions on pseudo-convex coverings. **98m:32028**
Hirachi, Kengo (*with* Komatsu, Gen) Invariant theory of the Bergman kernel. **98h:32041**
Jouenne, Corinne Équations de Cauchy-Riemann dans une famille de convexes de type fini. (English and French summaries) [Cauchy-Riemann equations in a family of convex domains of finite type] **98i:32004**
Khenkin, G. M. *see* **Gromov, Mikhael L.; et al., 98m:32028**
Komatsu, Gen *see* **Hirachi, Kengo, 98h:32041**
Laurent-Thiébaut, Christine ★ Théorie des fonctions holomorphes de plusieurs variables. (French) [Theory of holomorphic functions of several variables] **98g:32001**
Ramachandran, Mohan A Bochner-Hartogs type theorem for coverings of compact Kähler manifolds. **98k:32039**
Shaw, Mei-Chi Integral representations for $\overline{\partial}_b$ in CR manifolds. **98h:32005**
Shubin, Mikhail *see* **Gromov, Mikhael L.; et al., 98m:32028**
Soraggi, Roberto Luiz Local factorization of differential forms on Fréchet-Schwartz spaces. (English summary) **98i:46045**
Yao, Zong Yuan *see* **Zhong, Zhong Luan, 98e:32005**
Zhong, Tong De Hölder and L^p estimates for $\overline{\partial}_b$ on Stein manifolds. (English and Chinese summaries) **98c:32004**
— The Lewy equation on Stein manifolds. (Chinese. English and Chinese summaries) **98k:32005**
Zhong, Zhong Luan (*with* Yao, Zong Yuan) An integral representation of type I on an analytic polyhedron in $\mathbf{C}^n$. (Chinese. English and Chinese summaries) **98e:32005**

32F25 Real submanifolds in complex manifolds

Beloshapka, Valeriĭ K. Automorphisms of degenerate hypersurfaces in $\mathbf{C}^2$ and a dimension conjecture. (English summary) **98e:32026**
Berhanu, S. On extreme points and the strong maximum principle for CR functions. (English summary) **98e:32027**
Ezhov, V. V. (*with* Schmalz, Gerd) Normal form and two-dimensional chains of an elliptic CR manifold in $\mathbf{C}^4$. (English summary) **98m:32025**
Globevnik, Josip Partial indices of analytic discs attached to Lagrangian submanifolds of $\mathbf{C}^N$. (English and French summaries) **98a:32019**
Gong, Xianghong Divergence of the normalization for real Lagrangian surfaces near complex tangents. (English summary) **98e:32028**
— Unimodular invariants of totally real tori in $\mathbf{C}^n$. (English summary) **98f:32017**
Huang, Xiaojun On an n-manifold in $\mathbf{C}^n$ near an elliptic complex tangent. (English summary) **98m:32026**
Klingenberg, Wilhelm Stability of the Bishop family of holomorphic discs. **98h:32027**
Kuranishi, Masatake CR structures and Fefferman's conformal structures. (English summary) **98h:32028**
Neelon, Tejinder S. Finiteness conditions on real hypersurfaces in $\mathbf{C}^{n+1}$. (English summary) **98e:32029**
Paolantoni, Victoria Subaveraging estimate for CR functions defined on a hypersurface M of $\mathbf{C}^n$. (English summary) **98g:32026**
Schmalz, Gerd *see* **Ezhov, V. V., 98m:32025**
Słodkowski, Zbigniew (*with* Tomassini, Giuseppe) Levi equation and evolution of subsets of $\mathbf{C}^2$. (English and Italian summaries) **98h:32029**
Stanton, Nancy K. Infinitesimal CR automorphisms. **98k:32023**
Tomassini, Giuseppe *see* **Słodkowski, Zbigniew, 98h:32029**
Webster, Sidney M. Geometric and dynamical aspects of real submanifolds of complex space. **98c:32020**
Zampieri, Giuseppe Analytic discs attached to conormal bundles of CR-manifolds. (English summary) **98f:32018**
— Hypersurfaces through higher-codimensional submanifolds of $\mathbf{C}^n$ with preserved Levi-kernel. (English summary) **98g:32027**

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Alexander, Herbert Gromov's method and hulls. **98g:32020**
Domrin, A. V. On the spanning of maximally complex cycles by CR-submanifolds. (Russian) **98m:32011**
Ebenfelt, Peter On the unique continuation problem for CR mappings into nonminimal hypersurfaces. (English summary) **98h:32030**
Epstein, Charles L. (*with* Khenkin, G. M.) Extension of CR-structures for 3-dimensional pseudoconcave manifolds. (English summary) **98h:32012**
Forstneric, Franc (*with* Løw, Erik) Global holomorphic equivalence of smooth submanifolds in $\mathbf{C}^n$. (English summary) **98h:32020**
Ji, Shanyu New approaches to the Riemann mapping theorem. **98i:32033**
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Løw, Erik *see* **Forstneric, Franc, 98h:32020**
Maire, Henri-Michel (*with* Meylan, Francine) Extension of smooth CR mappings between non-essentially finite hypersurfaces in $\mathbf{C}^3$. **98e:32014**
Marchioni, Giovanna Complex sections in conormal bundles to real submanifolds of $\mathbf{C}^n$. **98b:32007**
Meylan, Francine *see* **Maire, Henri-Michel, 98e:32014**
Spiro, Andrea F. Smooth real hypersurfaces in $\mathbf{C}^n$ with a non-compact isotropy group of CR transformations. (English summary) **98k:32014**

32F30 Pseudoconvex manifolds

Barletta, Elisabetta (*with* Dragomir, Sorin) On C-tangent foliations of maximum modulus sets. (Italian summary) **98m:32027**

Darko, Patrick Corrigendum: "The L^2 $\overline{\partial}$-problem on manifolds with piecewise strictly pseudoconvex boundaries" [Math. Proc. Cambridge Philos. Soc. **116** (1994), no. 1, 147–149; MR 95b:32027]. **98k:32024**
Dragomir, Sorin *see* **Barletta, Elisabetta**, **98m:32027**
Gromov, Mikhael L. (*with* Khenkin, G. M.; Shubin, Mikhail) L^2 holomorphic functions on pseudo-convex coverings. **98m:32028**
Khenkin, G. M. *see* **Gromov, Mikhael L.; et al.**, **98m:32028**
Shubin, Mikhail *see* **Gromov, Mikhael L.; et al.**, **98m:32028**

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Nemirovskiĭ, S. Yu. Strictly pseudoconvex domains and algebraic manifolds. (Russian. Russian summary) **98a:32039**
Peternell, Thomas Pseudoconvexity, the Levi problem and vanishing theorems. (Russian) (*see* **98f:32001**)

32F40 CR structures, (tangential) CR operators and generalizations

Barletta, Elisabetta On the transverse Beltrami equation. **98a:32020**
— (*with* Dragomir, Sorin) On the spectrum of a strictly pseudoconvex CR manifold. **98m:32029**
Chen, Jingyi (*with* Li, Song-Ying) Holomorphic extensions of maps from the boundary of Kähler manifolds. (English summary) **98k:32025**
Chen, So-Chin Global analytic hypoellipticity of $\Box_b$ on circular domains. (English summary) **98d:32024**
Dragomir, Sorin *see* **Barletta, Elisabetta**, **98m:32029**
Ebenfelt, Peter On the unique continuation problem for CR mappings into nonminimal hypersurfaces. (English summary) **98h:32030**
Jurchescu, Martin The Cauchy-Riemann complex on a mixed manifold. (English summary) **98b:32012**
Li, Song-Ying *see* **Chen, Jingyi**, **98k:32025**
Park, Mikeung Regularity of $\overline{\partial}_b$ on weakly pseudoconvex 3-dimensional CR manifolds. (English summary) **98i:32024**
Repetto, Cinzia Transversally CR-pluriharmonic functions. (English summary) **98e:32030**
Schaal, Kristine ★ Lokale Regularität der tangentialen Cauchy-Riemann-Gleichungen auf Rändern komplexer Ellipsoide. (German) [Local regularity of the tangential Cauchy-Riemann equations on boundaries of complex ellipsoids] **98m:32030**
Shaw, Mei-Chi Homotopy formulas for $\overline{\partial}_b$ in CR manifolds with mixed Levi signatures. **98f:32019**
Zhong, Tong De $\overline{\partial}_b$-equation on complex manifolds. (English summary) **98k:32026**

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Beals, Richard (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. I. **98b:35032a**
— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. II. **98b:35032b**
— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. III. **98b:35032c**
D'Agnolo, Andrea (*with* Zampieri, Giuseppe) On microfunctions at the boundary along CR manifolds. (English summary) **98a:58149**
Gaveau, Bernard *see* **Beals, Richard; et al.**, **98b:35032a**; **98b:35032b** *and* **98b:35032c**
Greiner, Peter C. *see* **Beals, Richard; et al.**, **98b:35032a**; **98b:35032b** *and* **98b:35032c**
Hill, C. Denson (*with* Nacinovich, Mauro) On the Cauchy problem in complex analysis. **98h:32013**
Hirachi, Kengo (*with* Komatsu, Gen) Invariant theory of the Bergman kernel. **98h:32041**
Komatsu, Gen *see* **Hirachi, Kengo**, **98h:32041**
Luk, Hing Sun (*with* Yau, Stephen S.-T.) Some remarks on compact strongly pseudoconvex CR manifolds. **98j:32003**
— (*with* Yau, Stephen S.-T.) Complete algebraic CR invariants of real codimension 3 strongly pseudoconvex CR manifolds. **98m:32012**
Nacinovich, Mauro *see* **Hill, C. Denson**, **98h:32013**
Shiga, Kiyoshi (*with* Takeuchi, Shigeru) CR tensor product. (English summary) **98g:32014**
Spiro, Andrea F. Smooth real hypersurfaces in $\mathbf{C}^n$ with a non-compact isotropy group of CR transformations. (English summary) **98k:32014**
Takeuchi, Shigeru *see* **Shiga, Kiyoshi**, **98g:32014**
Tumanov, A. Propagation of extendibility of CR functions on manifolds with edges. **98e:32015**
Yau, Stephen S.-T. *see* **Luk, Hing Sun**, **98j:32003** *and* **98m:32012**
Zampieri, Giuseppe *see* **D'Agnolo, Andrea**, **98a:58149**

32F99 None of the above, but in this section

Jacobowitz, Howard The Levi and Stein problems for elliptic structures. **98d:32025**
Orevkov, S. Yu. Rudolph diagrams and analytic realization of the Vitushkin covering. (Russian. Russian summary) **98f:32020**
Sukhov, A. B. On the multidimensional symmetry principle. (Russian)

Items with secondary classifications in 32F99

Donnelly, Harold L_2 cohomology of the Bergman metric for weakly pseudoconvex domains. **98a:32034**
Kiselman, Christer O. Lineally convex Hartogs domains. (English summary) **98a:32013**
Shcherbina, N. V. (*with* Tomassini, Giuseppe) Levi-flat graphs with a noncompact boundary. (English and French summaries) **98j:32004**
Stenzel, Matthew B. Asymptotic curvature of Θ-metrics. (English summary) **98g:53063**
Tomassini, Giuseppe *see* **Shcherbina, N. V.**, **98j:32004**
Witte, Jörg A generalised Pompeiu formula related to differential equations in $\mathbf{C}^n$ with higher order. (English summary) **98d:35024**
Youssfi, E. H. Smoothness of subharmonic functions and potentials of the Bergman metric in the unit ball. (English summary) **98k:31008**

32Gxx Deformations of analytic structures

32G05 Deformations of complex structures [see also 13D10, 16S80, 58H10, 58H15]

Apanasov, Boris N. Bending deformations of complex hyperbolic surfaces. (English summary) **98k:32027**
Chung, I. J. *see* **Keum, Jong Hae**, **98e:32032**
El Kacimi Alaoui, Aziz (*with* Gmira, B.) Stabilité du caractère kählérien transverse. (French summary) [Stability of the transverse Kähler character] **98m:32031**
Gmira, B. *see* **El Kacimi Alaoui, Aziz**, **98m:32031**
Huybrechts, Daniel Birational symplectic manifolds and their deformations. **98e:32031**
Keum, Jong Hae (*with* Chung, I. J.) On fundamental groups of fibered complex manifolds. **98e:32032**
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Bogomolov, F. A. On the cohomology ring of a simple hyper-Kähler manifold (on the results of Verbitsky). **98b:32025**
Hwang, Jun-Muk Rigidity of homogeneous contact manifolds under Fano deformation. (English summary) **98h:32031**
Kawamata, Yujiro Erratum on: "Unobstructed deformations. A remark on a paper of Z. Ran: 'Deformations of manifolds with torsion or negative canonical bundle'" [J. Algebraic Geom. **1** (1992), no. 2, 183–190; MR 93e:14016]. **98k:14009**
Kim, Jongsu (*with* LeBrun, Claude; Pontecorvo, Massimiliano) Scalar-flat Kähler surfaces of all genera. (English summary) **98m:32045**
LeBrun, Claude *see* **Kim, Jongsu; et al.**, **98m:32045**
López de Medrano, Santiago (*with* Verjovsky, Alberto) A new family of complex, compact, non-symplectic manifolds. (English summary) **98g:32047**
Pontecorvo, Massimiliano *see* **Kim, Jongsu; et al.**, **98m:32045**
(Ran, Ziv) *see* **Kawamata, Yujiro**, **98k:14009**
Schuster, Peter M. The moduli of substructures of a compact complex space. (English summary) **98m:32032**
Verbitsky, Misha Cohomology of compact hyper-Kähler manifolds and its applications. (English summary) **98a:53069**
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32G07 Deformations of special (e.g. CR) structures

Akahori, Takao On Hodge theory over strongly pseudo convex boundaries. **98k:32028**
Hwang, Jun-Muk Rigidity of homogeneous contact manifolds under Fano deformation. (English summary) **98h:32031**

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Epstein, Charles L. (*with* Khenkin, G. M.) Extension of CR-structures for 3-dimensional pseudoconcave manifolds. (English summary) **98h:32012**
Gasqui, Jacques (*with* Goldschmidt, Hubert) The infinitesimal spectral rigidity of the real Grassmannians of rank two. **98i:58257**
Goldschmidt, Hubert *see* **Gasqui, Jacques**, **98i:58257**
Khenkin, G. M. *see* **Epstein, Charles L.**, **98h:32012**
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32G08 Deformations of fiber bundles

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Liu, Kefeng Heat kernel and moduli space. **98a:58155**

32G10 Deformations of submanifolds and subspaces

Campana, Frédéric (*with* Peternell, Thomas) Cycle spaces. (Russian) (*see* **98f:32001**)
Merkulov, Sergei Affine connections on involutive G-structures. **98g:32028**
— Existence and geometry of Legendre moduli spaces. **98h:32032**
Peternell, Thomas *see* **Campana, Frédéric**, (**98f:32001**)
Tsuboi, Syōji Locally stable holomorphic maps and their application to a global moduli problem for some kinds of analytic and algebraic subvarieties. **98g:32029**

32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10.} [see also 14H15, 14J15]

Biquard, Olivier (*with* García-Prada, Oscar) Parabolic vortex equations and instantons of infinite energy. (English summary) **98h:32033**
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Jeffrey, Lisa C. (*with* Weitsman, Jonathan) A perfect Morse function for the moduli space of flat connections. (English summary) **98j:32017**
Levin, Andrei Mikhailovich (*with* Ol'shanetskiĭ, M. A.) Double coset construction of moduli space of holomorphic bundles and Hitchin systems. (English summary) **98k:32029**
Ol'shanetskiĭ, M. A. *see* **Levin, Andrei Mikhailovich**, **98k:32029**
Schuster, Peter M. Identifying variable points on a smooth curve. (English summary) **98i:32026**
— The moduli of substructures of a compact complex space. (English summary) **98m:32032**
Suyama, Yoshihiro The analytic moduli space of simple framed holomorphic pairs. **98i:32027**
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Brînzănescu, Vasile ★ Holomorphic vector bundles over compact complex surfaces. **98g:32053**

Chiang, Ti-Ming (*with* Distler, Jacques; Greene, Brian R.) Some features of (0, 2) moduli space. (English summary) **98m:32036**

Distler, Jacques *see* **Chiang, Ti-Ming; et al., 98m:32036**

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Gawędzki, Krzysztof *see* **Falceto, Fernando, 98e:81154**

Greene, Brian R. *see* **Chiang, Ti-Ming; et al., 98m:32036**

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Hori, Kentaro Global aspects of gauged Wess-Zumino-Witten models. (English summary) **98b:81227**

Izeki, Hiroyasu The Teichmüller distance on the space of flat conformal structures. (English summary) **98k:58034**

Jeffrey, Lisa C. Quantum field theory, equivariant cohomology, symplectic geometry and moduli spaces of vector bundles on Riemann surfaces. **98h:58029**

Kallel, Sadok (*with* Milgram, R. James) The geometry of the space of holomorphic maps from a Riemann surface to a complex projective space. **98m:58014**

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Nakashima, Tohru Space of conformal blocks in 4D WZW theory. (English summary) **98h:14014**

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Srinivas Rau, S. On a formula of Ray-Singer. (English summary) **98d:58195**

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32G15 Moduli of Riemann surfaces, Teichmüller theory [see also 14H15, 30Fxx]

Adrianov, Nikolai Mikhailovich An analogue of the Harer-Zagier formula for uniceilular two-color maps. (Russian. Russian summary) **98j:32018**

Arés Gastesi, Pablo On Teichmüller spaces of Koebe groups. (English summary) **98i:32028**

— The Bers-Greenberg theorem and the Maskit embedding for Teichmüller spaces. (English summary) **98e:32034**

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Boya, Luis J. (*with* Segui-Santonja, Antonio J.) Topological charges and the genus of surfaces. (English summary) **98g:32030**

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Gallo, Daniel M. The topology of real projective structures. (English summary) **98m:32033**

— Deforming real projective structures. (English summary) **98a:32021**

Guo, Hui The uniqueness problem for geodesics in infinite-dimensional Teichmüller spaces. (Chinese)

Kawai, Shingo The symplectic nature of the space of projective connections on Riemann surfaces. **98h:32034**

Kra, Irwin Uniformizations of Riemann surfaces: Poincaré theta series, Riemann's theta function and theta constants. **98c:32021**

Liu, Li Xin A conjecture of the length spectrum of Riemann surface. **98a:32022**

— The boundary of extremal length of a Teichmüller space. (Chinese. Chinese summary) **98g:32031**

Luo, Feng[1] Geodesic length functions and Teichmüller spaces. (English summary) **98a:32023**

McMullen, Curtis T. Complex earthquakes and Teichmüller theory. (English summary) **98i:32030**

Nag, Subhashis Diff(S^1), Teichmüller space and period matrices: canonical mappings via string theory. **98b:32013**

Pekonen, Osmo The interface of Teichmüller theory and string theory. **98b:32014**

Segui-Santonja, Antonio J. *see* **Boya, Luis J., 98g:32030**

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Apanasov, Boris N. Bending deformations of complex hyperbolic surfaces. (English summary) **98k:32027**

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Belopolsky, Alexander De Rham cohomology of the supermanifolds and superstring BRST cohomology. (English summary) **98m:32009**

Colombo, Elisabetta Mapping class groups and the monodromy of generalized period maps. (Italian summary) **98j:57024**

Eguchi, Tohru (*with* Hori, Kentaro; Xiong, Chuan-Sheng) Quantum cohomology and Virasoro algebra. (English summary) **98j:14035**

González-Aguilera, Víctor (*with* Rodríguez, Rubí E.) On principally polarized abelian varieties and Riemann surfaces associated to prisms and pyramids. (English summary) **98i:14030**

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Imayoshi, Yoichi (*with* Mabuchi, Toshiki) A Torelli-type theorem for stable curves. **98h:14010**

Kaufmann, Ralph Martin (*with* Manin, Yuriĭ Ivanovich; Zagier, Don) Higher Weil-Petersson volumes of moduli spaces of stable n-pointed curves. (English summary) **98i:14029**

Keen, Linda (*with* Series, Caroline) How to bend pairs of punctured tori. **98m:30063**

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Matone, Marco Nonperturbative model of Liouville gravity. (English summary) **98a:32027**

Ol'shanetskiĭ, M. A. Generalized Hitchin systems and the Knizhnik-Zamolodchikov-Bernard equation on elliptic curves. (English summary) **98j:14036**

Rodríguez, Rubí E. *see* **González-Aguilera, Víctor, 98i:14030**

Rubanov, Olga (*with* Yakubov, È. Kh.) On Teichmüller-Jacobian space and non-linear equations. **98h:58090**

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Series, Caroline *see* **Keen, Linda, 98m:30063**

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Tromba, Anthony J. Dirichlet's energy of Teichmüller moduli space is strictly pluri-subharmonic. (English summary) **98f:58066**

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32G20 Period matrices, variation of Hodge structure; degenerations [see also 14D05, 14D07, 14K30]

Avram, A. C. (*with* Derrick, E.; Jančić, D.) On semi-periods. (English summary) **98e:32037**

Ceresole, Anna (*with* D'Auria, Riccardo; Ferrara, Sergio; Lerche, Wolfgang; Louis, Jan; Regge, Tullio) Picard-Fuchs equations, special geometry and target space duality. (English summary) **98b:32015**

D'Auria, Riccardo *see* **Ceresole, Anna; et al., 98b:32015**

Derrick, E. *see* **Avram, A. C.; et al., 98e:32037**

Ferrara, Sergio *see* **Ceresole, Anna; et al., 98b:32015**

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Lerche, Wolfgang *see* **Ceresole, Anna; et al., 98b:32015**

Lian, Bong H. (*with* Yau, Shing-Tung) Mirror maps, modular relations and hypergeometric series. II. (English summary) **98g:32032**

Louis, Jan *see* **Ceresole, Anna; et al., 98b:32015**

Poor, Cris (*with* Yuen, David S.) Relations on the period mapping giving extensions of mixed Hodge structures on compact Riemann surfaces. (English summary) **98g:32033**

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Colombo, Elisabetta Mapping class groups and the monodromy of generalized period maps. (Italian summary) **98j:57024**

Ewen, Holger (*with* Förger, Kristin) Simple calculation of instanton corrections in massive $N = 2$ SU(3) SYM. (English summary) **98j:81329**

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Förger, Kristin *see* **Ewen, Holger, 98j:81329**

Greene, Brian R. Constructing mirror manifolds. (English summary) **98g:32034**

Hosono, S. (*with* Klemm, Albrecht Otto; Theisen, Stefan) An extended lecture on mirror symmetry [MR 96f:32055]. (*see* **98c:00015**)

Isidro, José María[2] (*with* Mukherjee, Avijit; Nunes, João P.; Schnitzer, Howard J.) On the Picard-Fuchs equations for massive $N = 2$ Seiberg-Witten theories. (English summary) **98j:81334**

Itoyama, Hiroshi (*with* Morozov, A. Yu.) Integrability and Seiberg-Witten theory—curves and periods. (English summary) **98d:81116**

Kapovich, M. È. (*with* Millson, John J.) Hodge theory and the art of paper folding. (English summary) **98a:58028**

Klemm, Albrecht Otto (*with* Lerche, Wolfgang; Theisen, Stefan) Nonperturbative effective actions of ($N = 2$)-supersymmetric gauge theories. (English summary) **98a:81229**

— *see also* **Hosono, S.; et al., (98c:00015)**

Kontsevich, M. L. Mirror symmetry in dimension 3. (English summary) **98a:14055**

Kulikov, Vik. S. (*with* Kurchanov, P. F.) Complex algebraic varieties: periods of integrals and Hodge structures [MR 91k:14010]. (*see* **98i:14003**)

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Morrison, David R. Mathematical aspects of mirror symmetry. **98g:14044**

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Nag, Subhashis Diff(S^1), Teichmüller space and period matrices: canonical mappings via string theory. **98b:32013**
Noguchi, Masayuki Mirror symmetry of Calabi-Yau manifolds and flat coordinates. (English summary) **98k:14008**
Nunes, João P. *see* **Isidro, José María[2]; et al., 98j:81334**
Pekonen, Osmo The interface of Teichmüller theory and string theory. **98b:32014**
Ran, Ziv On the period maps of projective hypersurfaces. (English summary) **98j:14007**
Ryang, Shijong Picard-Fuchs equations for the $K3$ Landau-Ginzburg models with $c = 6$. (English summary) **98c:81184**
Schnitzer, Howard J. *see* **Isidro, José María[2]; et al., 98j:81334**
Shokurov, Vyacheslav V. Algebraic curves and their Jacobians [MR 91i:14022]. (*see* **98i:14003**)
Suzuki, Hisao Evaluation of periods via fibrations in Seiberg-Witten theories and in type-II string. (English summary) **98k:81280**
Terasoma, Tomohide Integration formulas for period integrals. (Japanese)
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Tsuboi, Syōji Locally stable holomorphic maps and their application to a global moduli problem for some kinds of analytic and algebraic subvarieties. **98g:32029**

32G34 Moduli and deformations for ordinary differential equations [see also 34A20]

Aomoto, Kazuhiko Connection matrices and Riemann-Hilbert problem for q-difference equations. **98m:32035**
Berthier, Michel (*with* Loray, Frank) Cohomologie relative des formes résonnantes non dégénérées. [Relative cohomology of nondegenerate resonant forms] **98b:32035**
Bolibrukh, A. A. The Riemann-Hilbert problem and Fuchsian differential equations on the Riemann sphere. **98e:32038**
— Holomorphic bundles, associated with linear differential equations and the Riemann-Hilbert problem. (English summary) **98c:32022**
Korotkin, D. (*with* Samtleben, H.) On the quantization of isomonodromic deformations on the torus. (English summary) **98h:32036**
Kostov, Vladimir Petrov On invariants of monodromy groups. (English summary) **98e:32039**
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Matsumoto, Keiji (*with* Sasaki, Takeshi) On the system of differential equations associated with a quadric and hyperplanes. **98j:32019**
Ohara, Katsuyoshi Computation of the monodromy of the generalized hypergeometric function ${}_pF_{p-1}(a_1, \cdots, a_p; b_2, \cdots, b_p; z)$. **98k:32031**
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Suzuki, Takeshi A system of differential equations associated with conformal field theory on elliptic curves. (English summary) **98a:32025**
Takebe, Takashi A system of difference equations with elliptic coefficients and Bethe vectors. (English summary) **98j:32020**

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(Calderbank, David) *see* **Hitchin, N. J., 98f:58048**
Golubeva, V. A. (*with* Leksin, V. P.) Quantum problems with symmetries and generalized Knizhnik-Zamolodchikov equations. (English summary) **98j:81149**
— (*with* Leksin, V. P.) Nonabelian statistics for Calogero-Sutherland systems of particles. (English summary) **98d:81133**
Govindarajan, Suresh Covariantising the Beltrami equation in W-gravity. (English summary) **98i:32031**
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Kazarnovski-Krol, A. Harish-Chandra decomposition for zonal spherical function of type A_n. **98f:22015**
Kimura, Hironobu On rational de Rham cohomology associated with the generalised confluent hypergeometric functions. I. $\mathbf{P}^1$ case. (English summary) **98b:14019**
Leksin, V. P. *see* **Golubeva, V. A., 98d:81133** *and* **98j:81149**
Liu, De Ming[1] Holonomic deformation of linear differential equations of the A_g type. (*see* **98f:35006**)
— On the holonomic deformation of linear differential equations of A_4 type. **98j:34009**
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Shimomura, Shun Connection formulae for solutions of a system of partial differential equations associated with the confluent hypergeometric function Φ_2. **98e:33003**
Terada, Toshiaki Non-vanishing Wronskian determinants and Riemann problem for hypergeometric function F_D. **98f:33024**
Terasoma, Tomohide Multiplication formula for hypergeometric functions. **98f:33002**
Yoshida, Masaaki ★ Hypergeometric functions, my love. **98k:33024**

32G81 Applications to physics

Billó, Marco (*with* Ceresole, Anna; D'Auria, Riccardo; Ferrara, Sergio; Fré, Pietro; Regge, Tullio; Soriani, Paolo; Van Proeyen, Antoine) A search for non-perturbative dualities of local $N = 2$ Yang-Mills theories from Calabi-Yau 3-folds. (English summary) **98a:32026**
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Chiang, Ti-Ming (*with* Distler, Jacques; Greene, Brian R.) Some features of (0, 2) moduli space. (English summary) **98m:32036**
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Fré, Pietro *see* **Billó, Marco; et al., 98a:32026**
Govindarajan, Suresh Covariantising the Beltrami equation in W-gravity. (English summary) **98i:32031**
Greene, Brian R. Constructing mirror manifolds. (English summary) **98g:32034**
— *see also* **Chiang, Ti-Ming; et al., 98m:32036**
Matone, Marco Nonperturbative model of Liouville gravity. (English summary) **98a:32027**
Mohri, Kenji Residues and topological Yang-Mills theory in two dimensions. (English summary) **98b:32037**
Ooguri, Hirosi Quantization of mirror symmetry. **98b:32016**
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Aldabe, Fermin E_6 breaking in (0, 2) string compactifications. (English summary) **98m:81122**
Aldazabal, G. (*with* Font, Anamaría; Ibáñez, L. E.; Uranga, A. M.) New branches of string compactifications and their F-theory duals. (English summary) **98h:81089**
Aldrovandi, Ettore (*with* Takhtajan, Leon A.) Generating functional in CFT and effective action for two-dimensional quantum gravity on higher genus Riemann surfaces. (English summary) **98i:81226**
Aspinwall, Paul S. $K3$ surfaces and string duality. (English summary) **98j:81243**
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Bershadsky, Michael (*with* Sadov, V.) Theory of Kähler gravity. (English summary) **98b:81182**
Brunner, Ilka (*with* Lynker, Monika; Schimmrigk, Rolf) Unification of M- and F-theory Calabi-Yau fourfold vacua. (English summary) **98f:32028**
— (*with* Lynker, Monika; Schimmrigk, Rolf) Dualities and phase transitions for Calabi-Yau threefolds and fourfolds. (English summary) **98g:32052**
Candelas, Philip (*with* Font, Anamaría) Duality between the webs of heterotic and type II vacua. (English summary) **98m:81134**
Ceresole, Anna (*with* D'Auria, Riccardo; Ferrara, Sergio; Lerche, Wolfgang; Louis, Jan; Regge, Tullio) Picard-Fuchs equations, special geometry and target space duality. (English summary) **98b:32015**
D'Auria, Riccardo *see* **Ceresole, Anna; et al., 98b:32015**
Eguchi, Tohru (*with* Hori, Kentaro; Xiong, Chuan-Sheng) Quantum cohomology and Virasoro algebra. (English summary) **98j:14035**
Falceto, Fernando (*with* Gawędzki, Krzysztof) Elliptic Wess-Zumino-Witten model from elliptic Chern-Simons theory. (English summary) **98d:81101**
Ferrara, Sergio *see* **Ceresole, Anna; et al., 98b:32015**
Font, Anamaría *see* **Aldazabal, G.; et al., 98h:81089** *and* **Candelas, Philip, 98m:81134**
Förste, Stefan (*with* Kehagias, Alexandros A.) Three-dimensional solitonic solutions. (English summary) **98g:81206**
Gawędzki, Krzysztof *see* **Falceto, Fernando, 98d:81101**
Greene, Brian R. String theory on Calabi-Yau manifolds. (English summary) **98i:81203**
Henningson, Måns (*with* Moore, Gregory W.) Threshold corrections in $K3 \times T^2$ heterotic string compactifications. (English summary) **98j:81276**
Hori, Kentaro Global aspects of gauged Wess-Zumino-Witten models. (English summary) **98b:81227**
— *see also* **Eguchi, Tohru; et al., 98j:14035**
Hosono, S. (*with* Klemm, Albrecht Otto; Theisen, Stefan) An extended lecture on mirror symmetry [MR 96f:32055]. (*see* **98c:00015**)
— (*with* Lian, Bong H.) GKZ hypergeometric systems and applications to mirror symmetry. (English summary) **98b:32024**
Ibáñez, L. E. *see* **Aldazabal, G.; et al., 98h:81089**
Isidro, José María[1] (*with* Mukherjee, Avijit; Nunes, João P.; Schnitzer, Howard J.) A new derivation of the Picard-Fuchs equations for effective $N = 2$ super Yang-Mills theories. (English summary) **98g:81207**
Isidro, José María[2] (*with* Nunes, João P.; Schnitzer, Howard J.) BF theories and group-level duality. (English summary) **98b:81228**
— (*with* Mukherjee, Avijit; Nunes, João P.; Schnitzer, Howard J.) A note on the Picard-Fuchs equations for $N = 2$ Seiberg-Witten theories. (English summary) **98m:81181**
Kachru, Shamit (*with* Vafa, Cumrun) Exact results for $N = 2$ compactifications of heterotic strings. (English summary) **98b:81198**
— Lectures on duality and string dynamics. (English summary) **98i:81206**
Kastor, David (*with* Win, K. Z.) Non-extreme Calabi-Yau black holes. (English summary) **98f:83071**
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Klemm, Albrecht Otto *see* **Hosono, S.; et al., (98c:00015)**
Kwon, Younghun (*with* Yoon, Dall Sun) Super W_n gravity on compactified moduli space. (English summary) **98f:81305**
Lerche, Wolfgang *see* **Ceresole, Anna; et al., 98b:32015**
Lian, Bong H. (*with* Yau, Shing-Tung) Mirror maps, modular relations and hypergeometric series. II. (English summary) **98g:32032**
— *see also* **Hosono, S., 98b:32024**
Louis, Jan *see* **Ceresole, Anna; et al., 98b:32015**
Lynker, Monika *see* **Brunner, Ilka; et al., 98f:32028** *and* **98g:32052**
Moore, Gregory W. *see* **Henningson, Måns, 98j:81276**
Morales, Jose F. (*with* Serone, Marco) BPS states and supersymmetric index in $N = 2$ type I string vacua. (English summary) **98k:81234**
Morrison, David R. (*with* Plesser, M. Ronen) Towards mirror symmetry as duality for two-dimensional abelian gauge theories. (English summary) **98i:81236**
Mukherjee, Avijit *see* **Isidro, José María[1]; et al., 98g:81207** *and* **Isidro, José María[2]; et al., 98m:81181**

Nag, Subhashis Diff(S^1), Teichmüller space and period matrices: canonical mappings via string theory. **98b:32013**
Nunes, João P. *see* **Isidro, José María[2]; et al., 98b:81228; Isidro, José María[1]; et al., 98g:81207** *and* **Isidro, José María[2]; et al., 98m:81181**
O'Loughlin, Martin Chern-Simons from Dirichlet 2-brane instantons. (English summary) **98b:81209**
Ooguri, Hirosi Note on holomorphic anomalies in topological field theories. **98e:81164**
Pekonen, Osmo The interface of Teichmüller theory and string theory. **98b:32014**
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Schlichenmaier, Martin Differential operator algebras on compact Riemann surfaces. (English summary) **98i:81084**
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Serone, Marco *see* **Morales, Jose F., 98k:81234**
Shmakova, Marina Calabi-Yau black holes. (English summary) **98f:83110**
Takhtajan, Leon A. Topics in the quantum geometry of Riemann surfaces: two-dimensional quantum gravity. **98e:32036**
— *see also* **Aldrovandi, Ettore, 98i:81226**
Theisen, Stefan *see* **Hosono, S.; et al., (98c:00015)**
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32G99 None of the above, but in this section

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Bauer, Michel (*with* Itzykson, Claude) Triangulations. (French) **98m:14027**
Itzykson, Claude *see* **Bauer, Michel, 98m:14027**

32Hxx Holomorphic mappings and correspondences

32H02 Holomorphic mappings, (holomorphic) embeddings and related questions

Baouendi, M. S. Analyticity of CR mappings of algebraic hypersurfaces. **98b:32017**
Buzzard, Gregery T. (*with* Forstneric, Franc) A Carleman type theorem for proper holomorphic embeddings. **98a:32028**
Chen, Zhi Hua Local characteristic of holomorphic automorphism on classical domains. (English summary) **98c:32023**
Curt, Paula First and second differential subordinations in several complex variables. (Romanian summary) **98a:32029**
Cynk, Sławomir (*with* Rusek, Kamil) Holomorphic bijections of algebraic sets. (English summary) **98f:32021**
Ding, Xuan Hao (*with* Sun, Shun Hua) Compositions of inner maps. (Chinese. Chinese summary) **98i:32032**
Forstneric, Franc *see* **Buzzard, Gregery T., 98a:32028**
Gong, Sheng *see* **Yu, Qihuang; et al., 98h:32038**
Graham, Ian On the Bloch constant for convex maps of the unit ball in $\mathbf{C}^n$. **98e:32040**
Guo, Xin *see* **Yu, Qihuang; et al., 98h:32038**
Ji, Shanyu New approaches to the Riemann mapping theorem. **98i:32033**
Kodama, Akio Characterizations of generalized complex ellipsoids in $\mathbf{C}^n$ from the viewpoint of biholomorphic automorphisms. **98f:32022**
Kohr, Gabriela (*with* Liczberski, Piotr) A starlikeness criterion for holomorphic mappings in the polydisc. **98m:32037**
— (*with* Kohr-Ile, Mirela) Partial differential subordinations for holomorphic mappings of several complex variables. (English and Romanian summaries) **98a:32030**
— (*with* Kohr-Ile, Mirela) Subordination theory for holomorphic mappings of several complex variables. (English summary) **98b:32018**
— On some partial differential inequalities for holomorphic mappings in $\mathbf{C}^n$. (English summary) **98a:32031**
— On certain conditions of starlikeness of order α in $\mathbf{C}^n$. (English summary) **98j:32021**
— Certain sufficient conditions of almost starlikeness of order $1/2$ on the unit ball in $\mathbf{C}^n$. (English summary) **98k:32032**
— (*with* Kohr-Ile, Mirela) Certain partial differential subordinations on some Reinhardt domains in $\mathbf{C}^n$. **98a:32032**
Kohr-Ile, Mirela *see* **Kohr, Gabriela, 98a:32030; 98a:32032** *and* **98b:32018**
Liczberski, Piotr Some criteria for Φ-likeness and close-to-starlikeness in $\mathbf{C}^n$. (English summary) **98k:32033**
— *see also* **Kohr, Gabriela, 98m:32037**
Liu, Taishun (*with* Zhang, Wen Jun) Homogeneous expansions of normalized biholomorphic convex mappings over B^p. (English summary) **98j:32022**
Molzon, Robert (*with* Pinney Mortensen, Karen) Univalence of holomorphic mappings. (English summary) **98k:32034**
Pinney Mortensen, Karen *see* **Molzon, Robert, 98k:32034**
Rothschild, Linda Preiss Holomorphically nondegenerate algebraic hypersurfaces and their mappings. **98b:32019**
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Stensönes, Berit Fatou-Bieberbach domains with C^∞-smooth boundary. **98d:32026**
Sun, Shun Hua *see* **Ding, Xuan Hao, 98i:32032**
Tsurumi, Kazuyuki Univalent mappings of several complex variables. (Japanese) (*see* **98d:30004**)
Vâjâitu, Viorel On $\mathscr{P}$-morphisms of complex spaces. **98i:32034**
Yu, Qihuang (*with* Gong, Sheng; Guo, Xin) Schwarzian derivative of holomorphic mappings. **98h:32038**
Zhang, Wen Jun *see* **Liu, Taishun, 98j:32022**

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Dor, Avner A domain in $\mathbf{C}^m$ not containing any proper image of the unit disc. **98b:32023**
Hamada, Hidetaka Holomorphic mappings into bounded complete Reinhardt domains of holomorphy which are Kobayashi isometries at one point. (English summary) **98g:32037**
Kohr, Gabriela (*with* Liczberski, Piotr) On some criteria of injectivity for complex mappings in the class C^1. (English summary) **98f:30012**
Kucharz, Wojciech A characterization of the complex affine line. (English summary) **98b:14025**
Liczberski, Piotr *see* **Kohr, Gabriela, 98f:30012**
Shimizu, Satoru[1] Holomorphic equivalence problem for two-dimensional tube domains with polynomial infinitesimal automorphisms. **98g:32006**

32H04 Meromorphic mappings

Tu, Zhen Han Normality criterions for families of holomorphic mappings into $\mathbf{P}^N(\mathbf{C})$. **98h:32039**

Items with secondary classifications in 32H04

Chinak, Mark The fixed point statements on Bergman type complex manifolds. (English summary) **98b:32020**

32H10 Bergman kernel function, representative domains

Bonami, Aline (*with* Chang, Der-Chen; Grellier, Sandrine) Commutation properties and Lipschitz estimates for the Bergman and Szegö projections. **98a:32033**
Chang, Der-Chen (*with* Li, Bao Qin) Sobolev and Lipschitz estimates for weighted Bergman projections. (English summary) **98i:32035**
— *see also* **Bonami, Aline; et al., 98a:32033**
Chinak, Mark The fixed point statements on Bergman type complex manifolds. (English summary) **98b:32020**
Cho, Sanghyun Estimates on the Bergman kernels on some domains in $\mathbf{C}^n$. **98e:32041**
Donnelly, Harold L_2 cohomology of the Bergman metric for weakly pseudoconvex domains. **98a:32034**
Francsics, Gábor (*with* Hanges, Nicholas) Asymptotic behavior of the Bergman kernel and hypergeometric functions. (English summary) **98h:32040**
— (*with* Hanges, Nicholas) Analytic singularities. (English summary) **98i:32036**
Fu, Siqi Geometry of Reinhardt domains of finite type in $\mathbf{C}^2$. (English summary) **98i:32037**
Grellier, Sandrine *see* **Bonami, Aline; et al., 98a:32033**
Hanges, Nicholas *see* **Francsics, Gábor, 98h:32040** *and* **98i:32036**
Hirachi, Kengo Invariants of CR structures and the logarithmic singularity of the Bergman kernel. **98i:32038**
— (*with* Komatsu, Gen) Invariant theory of the Bergman kernel. **98h:32041**
Jakóbczak, Piotr Descriptions of exceptional sets in the circles for functions from the Bergman space. (English summary) **98h:32042**
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— Asymptotic expansion of the Bergman kernel for weakly pseudoconvex tube domains. **98k:32035**
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Ma, Peiming Local boundary regularity of the Szegö projection and biholomorphic mappings of non-pseudoconvex domains. (English summary) **98d:32027**
McNeal, Jeffery D. Scaling and holomorphic projections on convex domains. **98g:32035**
— (*with* Stein, Elias M.) The Szegö projection on convex domains. **98f:32023**
Oeljeklaus, K. (*with* Pflug, Peter; Youssfi, E. H.) The Bergman kernel of the minimal ball and applications. (English and French summaries) **98d:32028**
Pagano, Andrea Bergman isometries between convex domains in $\mathbf{C}^2$ which are polyhedral. (English summary) **98a:32035**
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Shapiro, M. V. (*with* Vasilevskiĭ, N. L.) On the Bergman kernel function in hyperholomorphic analysis. (English summary) **98a:32036**
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Yuan, Bin Xian K-representative domains. (Chinese. English and Chinese summaries) **98m:32038**

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Arai, Hitoshi Degenerate elliptic operators, H^1 spaces and diffusions on strongly pseudoconvex domains. (English summary) **98e:32008**
Catlin, David W. (*with* D'Angelo, John P.) Positivity conditions for bihomogeneous polynomials. **98e:32023**
D'Angelo, John P. *see* **Catlin, David W., 98e:32023**
Kim, Dae Kyu On Hankel operator. **98c:47036**
Kohr, Gabriela On some conditions of spirallikeness in $\mathbf{C}^n$. (English summary) **98e:32048**
Ohsawa, Takeo Applications of L^2 estimates and some complex geometry. **98j:32036**
Pasternak-Winiarski, Zbigniew (*with* Wojcieszyński, Jacek) Bergman spaces and kernels for holomorphic vector bundles. **98c:46054**
— On the dependence of the orthogonal projector on deformations of the scalar product. (English summary) **98j:47043**
Reimann, H. M. Quasiconformal mappings and pseudoconvex domains. **98d:32020**
Ren, Guang Bin (*with* Shi, Ji Huai) Bergman type operator on mixed norm spaces with applications. (English summary) **98k:32006**
Shi, Ji Huai *see* **Ren, Guang Bin, 98k:32006**

Tong, Wu Analytic self-homeomorphisms derived from an arbitrary invariant Kähler metric on a class of Reinhardt domains. (Chinese. English and Chinese summaries) **98c:32047**

Webster, Sidney M. Geometric and dynamical aspects of real submanifolds of complex space. **98c:32020**

Wojcieszyński, Jacek *see* **Pasternak-Winiarski, Zbigniew, 98c:46054**

Yin, Wei Ping The comparison theorem for the Bergman and Kobayashi metrics on certain pseudoconvex domains. (English summary) **98j:32025**

32H15 Invariant metrics and pseudodistances

Abd-Alla, Mohamed Z. Sur la caractérisation des isomorphismes analytiques entre domaines bornés de $\mathbf{C}^n$. (English, French and Arabic summaries) [Characterization of analytic isomorphisms between bounded domains in $\mathbf{C}^n$] **98g:32036**

Edigarian, Armen Extremal mappings in convex domains. (English summary) **98j:32023**

Fadlalla, Adib A. Transfer of estimates from convex to strongly pseudoconvex domains in $\mathbf{C}^n$. (English summary) **98e:32042**

Hamada, Hidetaka A Schwarz lemma on complex ellipsoids. (English summary) **98j:32024**

— Holomorphic mappings into bounded complete Reinhardt domains of holomorphy which are Kobayashi isometries at one point. (English summary) **98g:32037**

Hwang, In-Gyu (*with* Kim, Jong Jin; Oh, Chun-Young; Park, Seoung-Hee) The relationships in pluricomplex Green function, Azukawa pseudometric and Sibony pseudometric. (English summary) **98g:32038**

Kanemaru, Tadayoshi Invariant distances and metrics in $\mathbf{C}^n$. **98i:32040**

Kim, Jong Jin (*with* Park, Seoung-Hee) The boundary behavior between the Kobayashi-Royden and Carathéodory metrics on strongly pseudoconvex domain in $\mathbf{C}^n$. (English summary) **98h:32043**

— *see also* **Hwang, In-Gyu; et al., 98g:32038**

Kobayashi, Masashi The convexity of the Kobayashi metric. (Japanese) (*see* **98f:35006**)

Kobayashi, Shoshichi On the intrinsic relative distance. **98c:32024**

Ma, Daowei Carathéodory extremal maps of ellipsoids. **98e:32043**

Meyer, Ralf The Carathéodory pseudodistance and positive linear operators. (English summary) **98e:32044**

Oh, Chun-Young *see* **Hwang, In-Gyu; et al., 98g:32038**

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Sasaki, Takeshi (*with* Yagi, Takeshi) Sectional curvature of projective invariant metrics on a strictly convex domain. **98c:32025**

Schwarz, Binyamin (*with* Srebro, Uri) Carathéodory balls and norm balls in $H_{p,n} = \{z \in \mathbf{C}^n : \|z\|_p < 1\}$. (English summary) **98c:32026**

Srebro, Uri *see* **Schwarz, Binyamin, 98c:32026**

Vesentini, Edoardo Complex geodesics and isometries in Cartan domains of type four. (English and Italian summaries) **98c:32027**

Vigué, Jean-Pierre Un lemme de Schwarz pour les boules-unités ouvertes. (English summary) [A Schwarz lemma for open unit balls] **98c:32028**

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Wieczorek, Agnieszka Liftability and invariant distances. (English and Polish summaries) **98m:32039**

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— (*with* Patrizio, Giorgio) Holomorphic curvature of Finsler metrics and complex geodesics. (English summary) **98h:53111**

— (*with* Patrizio, Giorgio) Kähler Finsler manifolds of constant holomorphic curvature. **98i:53099**

Abd-Alla, Mohamed Z. Sur les isométries de la boule unité de $l^1(\mathbf{N})$ pour la distance de Kobayashi. (English, French and Arabic summaries) [Isometries of the open unit ball of $l^1(\mathbf{N})$ for the Kobayashi distance] **98f:58018**

Adachi, Yukinobu On the relation between tautly imbedded space modulo an analytic subset S and hyperbolically imbedded space modulo S. **98i:32041**

Azukawa, Kazuo The pluri-complex Green function and a covering mapping. **98c:32016**

Boryczka, Grzegorz (*with* Tovar, Luis Manuel) Hyperbolic-like manifolds, geometrical properties and holomorphic mappings. (English summary) **98b:32021**

Charpentier, Philippe (*with* Dupain, Yves) Pseudodistances et courants positifs fermés dans les domaines de $\mathbf{C}^3$. [Pseudodistances and closed positive currents in domains in $\mathbf{C}^3$] **98m:32013**

Chen, Zhi Hua Local characteristic of holomorphic automorphism on classical domains. (English summary) **98c:32023**

Dupain, Yves *see* **Charpentier, Philippe, 98m:32013**

Fu, Siqi (*with* Wong, Bun) On strictly pseudoconvex domains with Kähler-Einstein Bergman metrics. **98m:32022**

Mercer, Peter R. Composition operators over convex domains in $\mathbf{C}^n$. (English summary) **98k:47060**

Pagano, Andrea Bergman isometries between convex domains in $\mathbf{C}^2$ which are polyhedral. (English summary) **98a:32035**

Pang, Myung-Yull Pseudoconvex domains in $\mathbf{C}^2$ with convexifiable boundary around an extremal disk. **98m:32023**

Patrizio, Giorgio *see* **Abate, Marco, 98h:53110; 98h:53111** *and* **98i:53099**

Sękowski, Tadeusz (*with* Stachura, Adam) Holomorphic non-equivalence of balls in Banach spaces l_p and L_2 from the geometrical point of view. (English summary) **98f:58019**

Stachura, Adam *see* **Sękowski, Tadeusz, 98f:58019**

Tong, Wu The holomorphic sectional curvatures of a class of egg domains. (Chinese. English and Chinese summaries) **98k:32016**

Tovar, Luis Manuel *see* **Boryczka, Grzegorz, 98b:32021**

Ueda, Tetsuo Complex dynamics on $\mathbf{P}^n$ and Kobayashi metric. (*see* **98h:58002**)

Webster, Sidney M. Geometric and dynamical aspects of real submanifolds of complex space. **98c:32020**

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Zwonek, Włodzimierz On symmetry of the pluricomplex Green function for ellipsoids. (English summary) **98m:32020**

32H20 Hyperbolic complex manifolds

Adachi, Yukinobu On the relation between tautly imbedded space modulo an analytic subset S and hyperbolically imbedded space modulo S. **98i:32041**

Boryczka, Grzegorz (*with* Tovar, Luis Manuel) Hyperbolic-like manifolds, geometrical properties and holomorphic mappings. (English summary) **98b:32021**

Demailly, Jean-Pierre (*with* El Goul, Jawher) Connexions méromorphes projectives partielles et variétés algébriques hyperboliques. (English and French summaries) [Partial projective meromorphic connections and hyperbolic projective varieties] **98j:32026**

— Variétés hyperboliques et équations différentielles algébriques. [Hyperbolic manifolds and algebraic differential equations] **98j:32027**

Dethloff, Gerd-E. (*with* Zaidenberg, Mikhail G.) Examples of plane curves of low degrees with hyperbolic and C-hyperbolic complements. (English summary) **98f:32024**

El Goul, Jawher *see* **Demailly, Jean-Pierre, 98j:32026**

Ha Huy Khoai Hyperbolic surfaces in $\mathbf{P}^1(\mathbf{C})$. (English summary) **98e:32046**

— Recent work on hyperbolic spaces. (English summary) **98e:32047**

Lu, Steven Shin-Yi On hyperbolicity and the Green-Griffiths conjecture for surfaces. (English summary) **98f:32025**

Siu, Yum-Tong (*with* Yeung, Sai-Kee) Defects for ample divisors of abelian varieties, Schwarz lemma, and hyperbolic hypersurfaces of low degrees. (English summary) **98h:32044**

Tovar, Luis Manuel *see* **Boryczka, Grzegorz, 98b:32021**

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Apanasov, Boris N. (*with* Xie, Xiangdong) Manifolds of negative curvature and nilpotent groups. (English summary) **98m:53046**

Burns, Dan (*with* Mazzeo, Rafe) On the geometry of cusps for $SU(n, 1)$. **98b:32008**

Edigarian, Armen Extremal mappings in convex domains. (English summary) **98j:32023**

Fujimoto, Hirotaka Nevanlinna theory and minimal surfaces. **98h:53012**

Joseph, James E. (*with* Kwack, Myung H.) Extension and convergence theorems for families of normal maps in several complex variables. (English summary) **98a:32004**

Kobayashi, Ryoichi Restructuring value distribution theory. **98c:32029**

Kwack, Myung H. *see* **Joseph, James E., 98a:32004**

Mazzeo, Rafe *see* **Burns, Dan, 98b:32008**

Noguchi, Junjiro Some topics in Nevanlinna theory, hyperbolic manifolds and Diophantine geometry. **98h:32045**

Suzuki, Makoto From the big Picard theorem to a finiteness theorem in hyperbolic geometry. **98m:32040**

Xie, Xiangdong *see* **Apanasov, Boris N., 98m:53046**

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Suzuki, Makoto From the big Picard theorem to a finiteness theorem in hyperbolic geometry. **98m:32040**

Items with secondary classifications in 32H25

Joseph, James E. (*with* Kwack, Myung H.) Extension and convergence theorems for families of normal maps in several complex variables. (English summary) **98a:32004**

Kobayashi, Shoshichi On the intrinsic relative distance. **98c:32024**

Kwack, Myung H. *see* **Joseph, James E., 98a:32004**

Langmann, Klaus Picardexponent und rationale Punkte. [Picard exponent and rational points] **98c:11061**

32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

Boutabaa, Abdelbaki Les courbes méromorphes ultramétriques. [Ultrametric meromorphic curves] **98d:32029**

Fujimoto, Hirotaka Value-distribution-theoretic properties of the Gauss map of complete minimal surfaces. **98d:32030**

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— Nevanlinna theory and number theory. (Japanese) **98k:32036**

— Value distribution theory of holomorphic curves into complex projective algebraic varieties and geometric Diophantine problems. **98k:32037**

Noguchi, Junjiro Some topics in Nevanlinna theory, hyperbolic manifolds and Diophantine geometry. **98h:32045**

— On Nevanlinna's second main theorem. **98c:32030**

Ounaies, Myriam Estimations du type Nevanlinna pour les applications holomorphes de $\mathbf{C}^n$ dans $\mathbf{C}^n$. (English and French summaries) [Nevanlinna estimates for holomorphic mappings from $\mathbf{C}^n$ into $\mathbf{C}^n$] **98g:32039**

Ru, Min The second main theorem with moving targets on parabolic manifolds. (English summary) **98j:32028**

— On a general form of the second main theorem. (English summary) **98c:32031**

Russakovskiĭ, A. M. (*with* Shiffman, Bernard) Value distribution for sequences of rational mappings and complex dynamics. (English summary) **98h:32046**

Shiffman, Bernard The second main theorem for log canonical $\mathbf{R}$-divisors. **98c:32032**

— *see also* **Russakovskiĭ, A. M., 98h:32046**

Toda, Nobushige On the fundamental inequality for non-degenerate holomorphic curves. **98m:32041**

Yang, Chung-Chun *see* **Hu, Pei-Chu, 98b:32022**

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Cherry, William A. (*with* Ye, Zhuan) Non-Archimedean Nevanlinna theory in several variables and the non-Archimedean Nevanlinna inverse problem. (English summary) **98c:11072**

Demailly, Jean-Pierre (*with* El Goul, Jawher) Connexions méromorphes projectives partielles et variétés algébriques hyperboliques. (English and French summaries) [Partial projective meromorphic connections and hyperbolic projective varieties] **98j:32026**

— Variétés hyperboliques et équations différentielles algébriques. [Hyperbolic manifolds and algebraic differential equations] **98j:32027**

El Goul, Jawher *see* **Demailly, Jean-Pierre, 98j:32026**

Favorov, S. Yu. On the growth of holomorphic mappings from a finite-dimensional space into a Banach space. (Russian. English, Russian and Ukrainian summaries) **98k:32040**

Gubler, Walter Heights of subvarieties over M-fields. **98k:14032**

Ha Huy Khoai Recent work on hyperbolic spaces. (English summary) **98e:32047**

Hu, Pei-Chu (*with* Yang, Chung-Chun) Further results on factorization of meromorphic solutions of partial differential equations. (English summary) **98f:32003**

Noguchi, Junjiro Value distribution theory over function fields and a Diophantine equation. **98m:11072**

— Nevanlinna-Cartan theory over function fields and a Diophantine equation. **98d:11076**

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Yang, Chung-Chun *see* **Hu, Pei-Chu, 98f:32003**

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32H35 Proper mappings, finiteness theorems

Berteloot, Francois (*with* Pinchuk, S.) A splitting property for proper holomorphic mappings between Reinhardt domains. (English summary) **98c:32033**

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32H40 Boundary regularity of holomorphic maps

Coupet, Bernard (*with* Sukhov, A. B.) On CR mappings between pseudoconvex hypersurfaces of finite type in $\mathbf{C}^2$. **98d:32031**

Sukhov, A. B. *see* **Coupet, Bernard, 98d:32031**

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32H99 None of the above, but in this section

Abate, Marco (*with* Patrizio, Giorgio) Finsler metrics of constant curvature and the characterization of tube domains. **98c:32036**

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— (*with* Liczberski, Piotr) On some partial differential inequalities for mappings of $\mathscr{C}^1$ class in $\mathbf{C}^n$. (English summary) **98i:32046**

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Rothschild, Linda Preiss Holomorphically nondegenerate algebraic hypersurfaces and their mappings. **98b:32019**

32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx.}

32J05 Compactification of analytic spaces

Furushima, Mikio On minimal compactifications of $\mathbf{C}^2$. (English summary) **98e:32049**

Items with secondary classifications in 32J05

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32J15 Compact surfaces

Carlson, James A. (*with* Toledo, Domingo) On fundamental groups of class VII surfaces. **98g:32044**

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Ruan, Yongbin Symplectic topology and complex surfaces. **98h:32050**

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32J17 Compact 3-folds

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Billó, Marco (*with* Ceresole, Anna; D'Auria, Riccardo; Ferrara, Sergio; Fré, Pietro; Regge, Tullio; Soriani, Paolo; Van Proeyen, Antoine) A search for non-perturbative dualities of local $N = 2$ Yang-Mills theories from Calabi-Yau 3-folds. (English summary) **98a:32026**

Brunner, Ilka (*with* Lynker, Monika; Schimmrigk, Rolf) Dualities and phase transitions for Calabi-Yau threefolds and fourfolds. (English summary) **98g:32052**

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Voisin, Claire A mathematical proof of a formula of Aspinwall and Morrison. (English summary) **98h:14069**

32J18 Compact n-folds ($n \geq 4$)

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Enoki, Ichiro A bimeromorphic characterization of compact complex parallelizable manifolds. **98c:32037**

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32J20 Algebraicity criteria

Nemirovskiĭ, S. Yu. Strictly pseudoconvex domains and algebraic manifolds. (Russian. Russian summary) **98a:32039**

Sitaramayya, M. Geometry of Moishezon and 1-convex spaces. II. Projectivity of Moishezon spaces and its non-compact version. **98g:32048**

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Gauduchon, Paul Topics in Riemannian twistor geometry. **98d:32036**

Kawazoe, Mitsuru Projectivity of torus fibre spaces over curves and multiple fibres. (English summary) **98g:32054**

Peternell, Thomas Modifications. (Russian) (*see* **98f:32001**)

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32J25 Transcendental methods of algebraic geometry [see also 14C30]

del Angel R., Pedro L. Hodge type of subvarieties of compact Hermitian symmetric spaces. **98g:32049**

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Eyssidieux, Philippe La caractéristique d'Euler du complexe de Gauss-Manin. (English summary) [The Euler characteristic of the Gauss-Manin complex] **98g:32050**

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Poor, Cris (*with* Yuen, David S.) Relations on the period mapping giving extensions of mixed Hodge structures on compact Riemann surfaces. (English summary) **98g:32033**
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Voisin, Claire Variations of Hodge structure and algebraic cycles. **98a:14016**
Wang, Chin-Lung On the incompleteness of the Weil-Petersson metric along degenerations of Calabi-Yau manifolds. **98a:32024**
Yuen, David S. *see* **Poor, Cris, 98g:32033**

32J27 Compact Kähler manifolds: generalizations, classification

Bogomolov, F. A. On the cohomology ring of a simple hyper-Kähler manifold (on the results of Verbitsky). **98b:32025**
Campana, Frédéric Connexité abélienne des variétés kählériennes compactes. (English and French summaries) [Abelian connectedness of compact Kähler manifolds] **98m:32044**
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Mok, Ngaiming Fibering compact Kähler manifolds over projective algebraic varieties of general type. **98g:32051**
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Soulé, Christophe Classes caractéristiques secondaires des fibrés plats. (French summary) [Secondary characteristic classes of flat bundles] **98i:32048**
Zucker, Steven M. The Cheeger-Simons invariant as a Chern class. **98j:32034**

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Catanese, Fabrizio (*with* LeBrun, Claude) On the scalar curvature of Einstein manifolds. (English summary) **98k:53057**
Figueroa-O'Farrill, José M. (*with* Köhl, C.; Spence, B.) Supersymmetry and the cohomology of (hyper)Kähler manifolds. (English summary) **98k:53062**
Gilkey, Peter B. (*with* Nikčević, S.; Pohjanpelto, Juha) The local index formula for a Hermitian manifold. (English summary) **98k:58211**
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Lupaşcu, P. Metrics of nonnegative scalar curvature on surfaces of Kähler type. (English summary) **98k:53048**
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Okonek, Christian (*with* Teleman, Andrei) Seiberg-Witten invariants and rationality of complex surfaces. **98f:32027**
Paun, Mihai Sur le groupe fondamental des variétés kählériennes compactes à classe de Ricci numériquement effective. (English and French summaries) [On the fundamental group of compact Kähler manifolds with numerically effective Ricci class] **98c:53078**
Petean, Jimmy Indefinite Kähler-Einstein metrics on compact complex surfaces. (English summary) **98i:32049**
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Winkelmann, Jörg On compact orbits in singular Kähler spaces. (English and Italian summaries) **98j:32042**

32J81 Applications to physics

Brunner, Ilka (*with* Lynker, Monika; Schimmrigk, Rolf) Dualities and phase transitions for Calabi-Yau threefolds and fourfolds. (English summary) **98g:32052**
Hosono, S. (*with* Klemm, Albrecht Otto; Theisen, Stefan) An extended lecture on mirror symmetry [MR 96f:32055]. (*see* **98c:00015**)
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32J99 None of the above, but in this section

Succi, Francesco From Klein surfaces to pluriharmonic spaces. (*see* **97i:53003**)

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Hironaka, Eriko Alexander stratifications of character varieties. (English summary) **98c:14020**
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32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K05 Banach analytic spaces [see also 58Bxx]

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32K99 None of the above, but in this section

Favorov, S. Yu. On the growth of holomorphic mappings from a finite-dimensional space into a Banach space. (Russian. English, Russian and Ukrainian summaries) **98k:32040**
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Bayoumi, Aboubekr Infinite-dimensional holomorphy without convexity condition. I. The Levi problem in nonlocally convex spaces. (English summary) **98m:46061**
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32Lxx Holomorphic fiber spaces [see also 55Rxx]

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32L05 Holomorphic fiber bundles and generalizations

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Umeno, Takashi De Rham cohomology of toroidal groups and complex line bundles. (English summary) **98c:32038**
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32L07 Hermite-Einstein bundles; Kähler-Einstein bundles [see also 53C07]

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de Bartolomeis, Paolo (*with* Tian, Gang) Stability of complex vector bundles. **98f:32031**
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— Recent progress on Kähler-Einstein metrics. **98c:32039**
— *see also* **de Bartolomeis, Paolo, 98f:32031**
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de Bartolomeis, Paolo Complex and holomorphic structures, their singularities and their invariants. (Italian) **98i:53098**
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Catanese, Fabrizio (*with* LeBrun, Claude) On the scalar curvature of Einstein manifolds. (English summary) **98k:53057**
Cherrier, Pascal *see* **Ben Abdesselem, Adnène, 98h:32023**
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32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [see also 14F05, 18F20, 55N30]

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Lescure, F. Cohomologie totale et courants de Dolbeault invariants. [Total cohomology and invariant Dolbeault currents] **98a:32041**
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Ma, Xiaonan Formes de torsion analytique et familles de submersions. (English and French summaries) [Analytic torsion forms and families of submersions] **98b:32026**
Mathai, Varghese (*with* Wu, Siye) Equivariant holomorphic Morse inequalities. I. Heat kernel proof. (English summary) **98i:58219**
Peternell, Thomas Cohomology. (Russian) (*see* **98f:32001**)
Umeno, Takashi De Rham cohomology of toroidal groups and complex line bundles. (English summary) **98c:32038**
Wong, Hon-Wai *see* **Gindikin, Simon G., 98j:22020**
Wu, Siye *see* **Mathai, Varghese, 98i:58219**

32L15 Bundle convexity [see also 32F10]

Asserda, S. Convexité holomorphe intermédiaire des revêtements d'un domaine pseudo-convexe. (English summary) [Intermediate holomorphic convexity of coverings of a pseudoconvex domain] **98h:32052**
Takayama, Shigeharu Remarks on the holomorphic convexity of the universal covering space of a projective manifold. **98h:32053**

32L20 Vanishing theorems

Demailly, Jean-Pierre L^2-methods and effective results in algebraic geometry. (English summary) **98e:32055**
Kazama, Hideaki (*with* Ohta, Tomoaki; Shon, Kwang Ho) Vanishing, non-vanishing and imbedding theorems on weakly pseudoconvex complex spaces. **98g:32056**
Nagatomo, Yasuyuki (*with* Nitta, Takashi) Vanishing theorems for quaternionic complexes. **98b:32028**
Nitta, Takashi *see* **Nagatomo, Yasuyuki, 98b:32028**
Ohsawa, Takeo Applications of L^2 estimates and some complex geometry. **98j:32036**
Ohta, Tomoaki *see* **Kazama, Hideaki; et al., 98g:32056**
Peternell, Thomas Pseudoconvexity, the Levi problem and vanishing theorems. (Russian) (*see* **98f:32001**)
Rajan, C. S. Vanishing theorems for cohomologies of automorphic vector bundles. **98c:32042**
Shon, Kwang Ho *see* **Kazama, Hideaki; et al., 98g:32056**
Takegoshi, Kensho A degeneration of Leray spectral sequence by proper Kähler morphisms. **98g:32057**

Items with secondary classifications in 32L20

Aikou, Tadashi Einstein-Finsler vector bundles. (English summary) **98i:53100**
Colţoiu, Mihnea On Barth's conjecture concerning $H^{n-1}(\mathbf{P}^n \setminus A, \mathcal{F})$. **98d:32009**
Manivel, Laurent Théorèmes d'annulation sur certaines variétés projectives. [Vanishing theorems on some projective varieties] **98a:14030**
Nagatomo, Yasuyuki (*with* Nitta, Takashi) Moduli of 1-instantons on $G_2(\mathbf{C}^{n+2})$. (English summary) **98d:58023**
Nitta, Takashi *see* **Nagatomo, Yasuyuki, 98d:58023**
Sitaramayya, M. Geometry of Moishezon and 1-convex spaces. II. Projectivity of Moishezon spaces and its non-compact version. **98g:32048**
Vâjâitu, Viorel Cohomology groups of locally q-complete morphisms with r-complete base. **98c:32019**

32L25 Twistor theory, double fibrations

Bailey, Toby N. (*with* Eastwood, Michael G.) Zero-energy fields on real projective space. (English summary) **98h:32054**
— (*with* Dunne, Edward G.) A twistor correspondence and Penrose transform for odd-dimensional hyperbolic space. (English summary) **98h:32055**
— *see also* **Eastwood, Michael G., 98j:32037**
Dunne, Edward G. *see* **Bailey, Toby N., 98h:32055**
Eastwood, Michael G. Complex methods in real integral geometry. (English summary) **98j:32037**
— *see also* **Bailey, Toby N., 98h:32054**
Gauduchon, Paul Topics in Riemannian twistor geometry. **98d:32036**
(Graham, C. R.) *see* **Eastwood, Michael G., 98j:32037**
Guha, Partha Local ADHM construction and holomorphic local vector bundles on the twistor space. (English summary) **98m:32047**
Hoàng Lê Minh Geometry of the Radon-Penrose transform and interpretation of singularities. (English summary) **98k:32043**
Ofman, Salomon Généralisation d'une transformation intégrale de $\mathbf{R}^2$, la transformation de Radon analytique. (English summary) [Generalization of an integral transform in $\mathbf{R}^2$, the analytic Radon transform] **98j:32038**
Schapira, Pierre Tomography of constructible functions. (English summary) **98e:32056**
Sekiguchi, Hideko System of differential equations on the bounded symmetric domain of AIIi type and the Penrose transform. (Japanese. Japanese summary) (*see* **98h:00024**)
Yokura, Shoji Homological Verdier-Radon functors on smooth varieties. **98a:32043**

Items with secondary classifications in 32L25

Bakas, Ioannis (*with* Sfetsos, Konstadinos) Toda fields of SO(3) hyper-Kahler metrics and free field realizations. (English summary) **98h:53073**
de Bartolomeis, Paolo Compactifications of the space of linear complex structures. (Italian summary) **98e:53122**

Boyer, Charles P. (*with* Galicki, Krzysztof) The twistor space of a 3-Sasakian manifold. (English summary) **98e:53072**
D'Amorim Santa-Cruz, Sérgio Twistor geometry for hyper-Kähler metrics on complex adjoint orbits. (English summary) **98k:53060**
Frot, Jean-Louis Correspondance d'Andreotti-Norguet et $\mathscr{D}$-modules. (English and French summaries) [Andreotti-Norguet correspondence and $\mathscr{D}$-modules] **98e:32010**
Galicki, Krzysztof *see* **Boyer, Charles P., 98e:53072**
Inoue, Yoshinari The inverse Penrose transform on Riemannian twistor spaces. (English summary) **98k:53091**
Ivanov, Ivan T. (*with* Roček, Martin) Supersymmetric σ-models, twistors, and the Atiyah-Hitchin metric. (English summary) **98i:53065**
Kim, Jongsu (*with* LeBrun, Claude; Pontecorvo, Massimiliano) Scalar-flat Kähler surfaces of all genera. (English summary) **98m:32045**
LeBrun, Claude *see* **Kim, Jongsu; et al., 98m:32045**
Mason, L. J. (*with* Woodhouse, N. M. J.) ★ Integrability, self-duality, and twistor theory. **98f:58002**
— Twistor theory, self-duality and integrability. **98g:58083**
Merkulov, Sergei Affine connections on involutive G-structures. **98g:32028**
— Existence and geometry of Legendre moduli spaces. **98h:32032**
Nagatomo, Yasuyuki (*with* Nitta, Takashi) Vanishing theorems for quaternionic complexes. **98b:32028**
Nitta, Takashi *see* **Nagatomo, Yasuyuki, 98b:32028**
Pawełczyk, Jacek Rigid string instantons are pseudo-holomorphic curves. (English summary) **98k:58030**
Pontecorvo, Massimiliano Complex structures on Riemannian four-manifolds. **98k:53092**
— *see also* **Kim, Jongsu; et al., 98m:32045**
Roček, Martin *see* **Ivanov, Ivan T., 98i:53065**
Sekiguchi, Hideko The Penrose transform for certain non-compact homogeneous manifolds of $\mathrm{U}(n,n)$. (English summary) **98d:22011**
Sergeev, A. G. On twistor quantization of loop spaces and Kähler manifolds. (English summary) **98d:58076**
Sfetsos, Konstadinos *see* **Bakas, Ioannis, 98h:53073**
Woodhouse, N. M. J. *see* **Mason, L. J., 98f:58002**

32L30 Holomorphic foliations [see also 58F18]

Brasselet, Jean-Paul Indices of vectorfields and residues of singular foliations after Nash transformation (about joint works with M. H. Schwartz and T. Suwa). **98c:32043**
Brunella, Marco Feuilletages holomorphes sur les surfaces complexes compactes. (English and French summaries) [Holomorphic foliations on compact complex surfaces] **98i:32051**
Cerveau, D. (*with* Sad, Paulo) Liouvillian integration and Bernoulli foliations. (English summary) **98k:32044**
García Zamora, Alexis Foliations in algebraic surfaces having a rational first integral. (English summary) **98m:32048**
Ghys, Étienne Feuilletages holomorphes de codimension un sur les espaces homogènes complexes. (English and French summaries) [Codimension-one holomorphic foliations on complex homogeneous spaces] **98d:32037**
Honda, Tomoaki Residue formulas for singular foliations defined by meromorphic functions on surfaces. **98c:32044**
Khanedani, Bahman (*with* Suwa, Tatsuo) First variation of holomorphic forms and some applications. (English summary) **98i:32052**
Lins Neto, A. (*with* Soares, M. G.) Algebraic solutions of one-dimensional foliations. (English summary) **98k:32045**
Mattei, Jean-François (*with* Salem, Eliane) Singularities of finite formal type for foliations of $(\mathbf{C}^2,0)$. **98c:32045**
— (*with* Salem, Eliane) Complete systems of topological and analytical invariants for a generic foliation of $(\mathbf{C}^2,0)$. (English summary) **98a:32044**
Sad, Paulo Linear holonomy groups of algebraic solutions of polynomial differential equations. (English and French summaries) **98c:32046**
— *see also* **Cerveau, D., 98k:32044**
Salem, Eliane *see* **Mattei, Jean-François, 98a:32044** *and* **98c:32045**
Seade, José (*with* Suwa, Tatsuo) Residues and topological invariants of singular holomorphic foliations. **98k:32046**
Soares, M. G. *see* **Lins Neto, A., 98k:32045**
Suwa, Tatsuo Residues of complex analytic foliations relative to singular invariant subvarieties. (English summary) **98i:32053**
— *see also* **Khanedani, Bahman, 98i:32052** *and* **Seade, José, 98k:32046**
Yoshizaki, Junya The structure of the singular set of a complex analytic foliation. (English summary) **98g:32058**

Items with secondary classifications in 32L30

Aldrovandi, Ettore Toda fields on Riemann surfaces: remarks on the Miura transformation. (English summary) **98b:32029**
Berthier, Michel (*with* Cerveau, D.; Lins Neto, A.) Sur les feuilletages analytiques réels et le problème du centre. [Real-analytic foliations and the problem of the center] **98a:58128**
Brunella, Marco Some remarks on indices of holomorphic vector fields. (English summary) **98m:32052**
Cavalier, Vincent (*with* Haefliger, André) Réalisations feuilletées de quelques pseudogroupes. (French summary) [Foliated realizations of some pseudogroups] **98g:58190**
Cerveau, D. *see* **Berthier, Michel; et al., 98a:58128**
Chirka, E. M. (*with* Shcherbina, N. V.) Pseudoconvexity of rigid domains and foliations of hulls of graphs. **98f:32016**
El Kacimi Alaoui, Aziz (*with* Gmira, B.) Stabilité du caractère kählérien transverse. (French summary) [Stability of the transverse Kähler character] **98m:32031**
Gmira, B. *see* **El Kacimi Alaoui, Aziz, 98m:32031**
Haefliger, André *see* **Cavalier, Vincent, 98g:58190**
Hwang, Jun-Muk Holomorphic vector fields with totally degenerate zeroes. (English summary) **98b:32036**
Lins Neto, A. *see* **Berthier, Michel; et al., 98a:58128**
Loeb, Jean Jacques (*with* Nicolau, Marcel) Holomorphic flows and complex structures on products of odd-dimensional spheres. **98e:32051**
Nicolau, Marcel *see* **Loeb, Jean Jacques, 98e:32051**
Shcherbina, N. V. *see* **Chirka, E. M., 98f:32016**
Suwa, Tatsuo Indices and residues of holomorphic vector fields on singular varieties. **98d:32042**

32L81 Applications to physics

Aldrovandi, Ettore Toda fields on Riemann surfaces: remarks on the Miura transformation. (English summary) **98b:32029**

Items with secondary classifications in 32L81

Goncharov, Yu. P. Parametrization of $\mathrm{U}(N)$-monopoles on black holes by the moduli space of holomorphic vector bundles over two-sphere and black hole entropy. (English summary) **98m:83045**

32L99 None of the above, but in this section

Bahrampour, Y. *see* **Nekooei, R., 98j:32039**
Nekooei, R. (*with* Bahrampour, Y.) Preholomorphic sections. (English summary) **98j:32039**

32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups of complex spaces [see also 22E10]

Bremigan, R. J. Invariant analytic domains in complex semisimple groups. (English summary) **98b:32030**
Gaussier, Hervé Characterization of convex domains with noncompact automorphism group. **98j:32040**
Gilligan, Bruce (*with* Heinzner, Peter) Globalization of holomorphic actions on principal bundles. (English summary) **98j:32041**
Heinzner, Peter (*with* Migliorini, L.) Quotients with respect to holomorphic actions of reductive groups. **98h:32056**
— (*with* Iannuzzi, Andrea) Integration of local actions on holomorphic fiber spaces. (English summary) **98k:32047**
— *see also* **Gilligan, Bruce, 98j:32041**
Huckleberry, A. T. (*with* Zaitsev, Dmitri) Actions of groups of birationally extendible automorphisms. **98e:32057**
Iannuzzi, Andrea *see* **Heinzner, Peter, 98k:32047**
Isaev, A. V. (*with* Krantz, Steven G.) Finitely smooth Reinhardt domains with non-compact automorphism group. **98i:32054**
Krantz, Steven G. Survey of some recent ideas concerning automorphism groups of domains. (English summary) **98i:32055**
— *see also* **Isaev, A. V., 98i:32054**
Migliorini, L. *see* **Heinzner, Peter, 98h:32056**
Shimizu, Satoru[1] Automorphisms of tube domains. **98g:32059**
Tong, Wu Analytic self-homeomorphisms derived from an arbitrary invariant Kähler metric on a class of Reinhardt domains. (Chinese. English and Chinese summaries) **98c:32047**
Winkelmann, Jörg ★ The classification of three-dimensional homogeneous complex manifolds. **98g:32060**
— On compact orbits in singular Kähler spaces. (English and Italian summaries) **98j:32042**
Wong, Bun On the singularity of the boundary of a convex domain admitting a non-compact automorphism group. **98f:32034**
Zaitsev, Dmitri *see* **Huckleberry, A. T., 98e:32057**

Items with secondary classifications in 32M05

Beloshapka, Valeriĭ K. Automorphisms of degenerate hypersurfaces in $\mathbf{C}^2$ and a dimension conjecture. (English summary) **98e:32026**
Fu, Siqi (*with* Wong, Bun) On boundary accumulation points of a smoothly bounded pseudoconvex domain in $\mathbf{C}^2$. **98j:32012**
Heinzner, Peter (*with* Huckleberry, A. T.) Kählerian potentials and convexity properties of the moment map. **98e:58075**
Huckleberry, A. T. *see* **Heinzner, Peter, 98e:58075**
Lescure, F. Cohomologie totale et courants de Dolbeault invariants. [Total cohomology and invariant Dolbeault currents] **98a:32041**
Sadowski, Michał Invariant Hodge forms and equivariant splittings of algebraic manifolds. (English summary) **98m:32046**
Stanton, Nancy K. Infinitesimal CR automorphisms. **98k:32023**
Wong, Bun *see* **Fu, Siqi, 98j:32012**

32M10 Homogeneous complex manifolds [see also 14M17, 57T15]

Dimou, G. E. (*with* Tsagas, Grigorios T.) Classification of Siegel domains of dimension 14 over $\mathbf{C}$. **98e:32058**
Dubrovin, B. A. (*with* Zhang, Youjin) Extended affine Weyl groups and Frobenius manifolds. (English summary) **98k:32048**
Gilligan, Bruce On closed radical orbits in homogeneous complex manifolds. (English summary) **98a:32045**
Gindikin, Simon G. Fubini-Study structures on Grassmannians. (Italian summary) **98f:32035**
Guan, Zhuang Dan Classification of compact complex homogeneous spaces with invariant volumes. (English summary) **98i:32056**
Tsagas, Grigorios T. *see* **Dimou, G. E., 98e:32058**

Zhang, Youjin *see* **Dubrovin, B. A., 98k:32048**

Items with secondary classifications in 32M10

Barchini, L. (*with* Gindikin, Simon G.; Wong, Hon-Wai) Determinant functions and the geometry of the flag manifold for $SU(p,q)$. (English summary) **98e:22006**
Dunne, Edward G. (*with* Zierau, Roger) The automorphism groups of complex homogeneous spaces. **98b:22029**
Gindikin, Simon G. *see* **Barchini, L.; et al., 98e:22006**
Takahashi, Masaro Cohomologies of homogeneous endomorphism bundles over low-dimensional Kähler C-spaces. **98b:32027**
Wong, Hon-Wai *see* **Barchini, L.; et al., 98e:22006**
Zierau, Roger *see* **Dunne, Edward G., 98b:22029**

32M12 Almost homogeneous manifolds and spaces [see also 14M17]

Items with secondary classifications in 32M12

Bros, J. (*with* Viano, G. A.) Connection between the harmonic analysis on the sphere and the harmonic analysis on the one-sheeted hyperboloid: an analytic continuation viewpoint. I. (English summary) **98b:43018**
Guan, Zhuang Dan Toward a classification of almost homogeneous manifolds. I. Linearization of the singular extremal rays. **98i:14037**
Viano, G. A. *see* **Bros, J., 98b:43018**

32M15 Hermitian symmetric spaces, bounded symmetric domains [see also 22E10, 22E40, 53C35, 57T15]

Items with secondary classifications in 32M15

del Angel R., Pedro L. Hodge type of subvarieties of compact Hermitian symmetric spaces. **98g:32049**
Arazy, Jonathan Boundedness and compactness of generalized Hankel operators on bounded symmetric domains. (English summary) **98c:47032**
— (*with* Upmeier, Harald) Invariant inner product in spaces of holomorphic functions on bounded symmetric domains. (English summary) **98k:46040**
Barchini, L. (*with* Gindikin, Simon G.; Wong, Hon-Wai) Determinant functions and the geometry of the flag manifold for $SU(p,q)$. (English summary) **98e:22006**
Bertram, Wolfgang On some causal and conformal groups. (English summary) **98d:53076**
Clerc, Jean-Louis Equivariant holomorphic maps into the Siegel disc and the metaplectic representation. (English summary) **98h:22015**
Dooley, Anthony H. (*with* Ørsted, Bent; Zhang, Gen Kai) Relative discrete series of line bundles over bounded symmetric domains. (English and French summaries) **98b:22028**
Fujita, Etsuro (*with* Nomura, Takaaki) Spectral decompositions of Berezin transformations on $\mathbf{C}^n$ related to the natural $U(n)$-action. **98e:47048**
Gindikin, Simon G. Fubini-Study structures on Grassmannians. (Italian summary) **98f:32035**
— *see also* **Barchini, L.; et al., 98e:22006**
Hahn, K. T. (*with* Youssfi, E. H.) The Bloch space of M-harmonic functions on bounded symmetric domains. (English summary) **98a:32006**
Hunt, Bruce ★ The geometry of some special arithmetic quotients. **98c:14033**
Ji, Lizhen Compactifications of symmetric spaces and locally symmetric spaces. **98j:53060**
Kim, Dae Kyu On Hankel operator. **98c:47036**
Nomura, Takaaki *see* **Fujita, Etsuro, 98e:47048**
Orsted, Bent *see* **Dooley, Anthony H.; et al., 98b:22028**
Rajan, C. S. Vanishing theorems for cohomologies of automorphic vector bundles. **98c:32042**
Sekiguchi, Hideko System of differential equations on the bounded symmetric domain of AIII type and the Penrose transform. (Japanese. Japanese summary) (*see* **98h:00024**)
Upmeier, Harald *see* **Arazy, Jonathan, 98k:46040**
Vesentini, Edoardo Complex geodesics and isometries in Cartan domains of type four. (English and Italian summaries) **98c:32027**
Wong, Hon-Wai *see* **Barchini, L.; et al., 98e:22006**
Youssfi, E. H. *see* **Hahn, K. T., 98a:32006**
Zhang, Gen Kai *see* **Dooley, Anthony H.; et al., 98b:22028**

32M99 None of the above, but in this section

Lu, Qi-Keng The horo-hypercircle coordinates and their application to the construction of a heat kernel. **98h:32057**

Items with secondary classifications in 32M99

Bopp, Nicole (*with* Rubenthaler, Hubert) Une fonction zêta associée à certaines familles d'espaces symétriques réels. (English and French summaries) [A zeta function associated to certain families of real symmetric spaces] **98h:11110**
Cynk, Slawomir (*with* Szemberg, Tomasz) On Urata fibre bundles. (English summary) **98h:32051**
de Fabritiis, C. Commuting maps and families of hyperbolic automorphisms. **98i:32045**
Rubenthaler, Hubert *see* **Bopp, Nicole, 98h:11110**
Szemberg, Tomasz *see* **Cynk, Slawomir, 98h:32051**
Wong, Bun On the singularity of the boundary of a convex domain admitting a non-compact automorphism group. **98f:32034**

32Nxx Automorphic functions [see also 11Fxx, 20H10, 22E40, 30F35]

32N10 Automorphic forms

Ichikawa, Takashi Deformation of degenerate curves and automorphic functions on the Teichmüller space. **98a:32046**

Items with secondary classifications in 32N10

Berenstein, Carlos A. (*with* Kawai, Takahiro; Struppa, Daniele C.; Takei, Yoshitsugu) Exponential representation of a holomorphic solution of a system of differential equations associated with the theta-zerovalue. **98h:35028**
Hamahata, Yoshinori Modular 3-folds obtained from quaternion unitary groups of degree 2. (English summary) **98k:11057**
Kawai, Takahiro *see* **Berenstein, Carlos A.; et al., 98h:35028**
Struppa, Daniele C. *see* **Berenstein, Carlos A.; et al., 98h:35028**
Takase, Koichi On theta series with harmonic polynomials or Hermite polynomials. **98i:11025**
Takei, Yoshitsugu *see* **Berenstein, Carlos A.; et al., 98h:35028**

32N15 Automorphic functions in symmetric domains

Selberg, Atle Linear operators and automorphic forms. **98e:32059**

32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)

Endo, Mikihiko (*with* Escassut, Alain) A counter example of p-adic Hartogs theorem on a product of closed disks. **98e:32060**
Escassut, Alain *see* **Endo, Mikihiko, 98e:32060**
Lipshitz, L. (*with* Robinson, Z.) One-dimensional fibers of rigid subanalytic sets. **98m:32049**
Robinson, Z. *see* **Lipshitz, L., 98m:32049**

Items with secondary classifications in 32P05

Cherry, William A. (*with* Ye, Zhuan) Non-Archimedean Nevanlinna theory in several variables and the non-Archimedean Nevanlinna inverse problem. (English summary) **98c:11072**
Ishida, Masa-Nori Convex sets in the p-adic open ball. (Japanese summary) **98b:14024**
de Jong, Aise Johan (*with* van der Put, Marius) Étale cohomology of rigid analytic spaces. (English summary) **98d:14024**
Liu, Nianzheng Analytic cell decomposition and the closure of p-adic semianalytic sets. **98h:03039**
van der Put, Marius *see* **de Jong, Aise Johan, 98d:14024**
Schoutens, Hans Closure of rigid semianalytic sets. (English summary) **98m:14054**
Ye, Zhuan *see* **Cherry, William A., 98c:11072**

32Sxx Singularities

Items with secondary classifications in 32Sxx

Barlet, D. (*with* Geandier, F.; Belgrade, R.) ★ Séminaire de Singularités. (French) [Seminar on Singularities] **98g:32003**
Belgrade, R. *see* **Barlet, D.; et al., 98g:32003**
Geandier, F. *see* **Barlet, D.; et al., 98g:32003**

32S05 Local singularities [see also 14B05]

Dudziński, Piotr Topological invariants of germs of real analytic functions. **98b:32031**
Mond, David How good are real pictures? **98i:32057**
Saito, Kyoji Around the theory of the generalized weight system: relations with singularity theory, the generalized Weyl group and its invariant theory, etc. [MR 88c:32015a; 88c:32015b]. (*see* **98k:00025**)

Items with secondary classifications in 32S05

Bruce, J. W. (*with* Marar, W. L.) Images and varieties. **98a:58022**
Gavrilov, Ljubomir Nedjalkov Isochronicity of plane polynomial Hamiltonian systems. (English summary) **98b:58143**
Marar, W. L. *see* **Bruce, J. W., 98a:58022**
O'Shea, Donal Computing invariants of hypersurface singularities. **98k:14003**
Schuster, Peter M. Identifying variable points on a smooth curve. (English summary) **98i:32026**

32S10 Invariants of analytic local rings

Items with secondary classifications in 32S10

Luk, Hing Sun (*with* Yau, Stephen S.-T.) Complete algebraic CR invariants of real codimension 3 strongly pseudoconvex CR manifolds. **98m:32012**
Peraire, Rosa Moduli of plane curve singularities with a single characteristic exponent. (English summary) **98e:14024**
Yau, Stephen S.-T. *see* **Luk, Hing Sun, 98m:32012**

32S15 Equisingularity (topological and analytic) [see also 14E15]

Kang, Chunghyuk (*with* Kim, Sung-Yeon) Some examples of analytic irreducible plane curve singularities. **98a:32047**
— Some analytic irreducible plane curve singularities. **98a:32048**
Kim, Sung-Yeon *see* **Kang, Chunghyuk, 98a:32047**
Kuo, Tzee-Char (*with* Milman, Pierre D.) On arc-analytic trivialization of singularities. (English summary) (*see* **98i:32001**)
Milman, Pierre D. *see* **Kuo, Tzee-Char, (98i:32001)**

Mond, David (*with* Ratcliffe, D.) An infinite number of counter-examples to a conjecture on stems. **98h:32058**
O'Shea, Donal (*with* Teleman, Constantin) Limiting tangent spaces and a criterion for μ-constancy. **98k:32049**
Parusiński, Adam A note on singularities at infinity of complex polynomials. (English summary) **98f:32036**
Peraire, Rosa Tjurina number of a generic irreducible curve singularity. **98h:32059**
Ratcliffe, D. *see* **Mond, David**, **98h:32058**
Teleman, Constantin *see* **O'Shea, Donal**, **98k:32049**

Items with secondary classifications in 32S15

Biosca, Hélène Caractérisation de l'existence de polynômes de Bernstein relatifs associés à une famille d'applications analytiques. (English and French summaries) [Characterization of the existence of relative Bernstein polynomials associated to analytic maps] **98j:32045**
Loi, Ta Lê Thom stratifications for functions definable in o-minimal structures on $(\mathbf{R}, +, \cdot)$. (English and French summaries) **98i:32009**
Massey, David B. ★ Lê cycles and hypersurface singularities. **98h:32061**
Păunescu, Laurenţiu An example of blow analytic homeomorphism. (*see* **98i:32001**)

32S20 Global theory of singularities; cohomological properties [see also 14E15]

Cassou-Noguès, Pierrette (*with* Ha Huy Vui) Théorème de Kuiper-Kuo-Bochnak-Łojasiewicz à l'infini. (English and French summaries) [The Kuiper-Kuo-Bochnak-Łojasiewicz theorem at infinity] **98g:32061**
Ha Huy Vui *see* **Cassou-Noguès, Pierrette**, **98g:32061**
Houston, Kevin Global topology of images of finite complex analytic maps. (English summary) **98k:32050**
Silvotti, Roberto On a conjecture of Varchenko. **98d:32038**
Urabe, Tohsuke Duality of the second fundamental form. (*see* **98i:32001**)
Zhou, Jianyi Chern classes in bivariant theory definitions of Brasselet and of Sabbah. **98e:32061**

Items with secondary classifications in 32S20

Jiang, Tan (*with* Yau, Stephen S.-T.) Complement of arrangement of hyperplanes. **98e:52011**
Okuma, Tomohiro The second pluri-genus of surface singularities. (English summary) **98k:14051**
Yau, Stephen S.-T. *see* **Jiang, Tan**, **98e:52011**
Zaharia, Alexandru On the Poincaré series of the Milnor algebra of arrangements. **98e:52012**

32S25 (Hyper-) surface singularities [see also 14J17]

Gusein-Zade, S. M. (*with* Luengo, Ignacio; Melle-Hernández, A.) Partial resolutions and the zeta-function of a singularity. (English summary) **98j:32043**
Luengo, Ignacio *see* **Gusein-Zade, S. M.; et al.**, **98j:32043**
Melle-Hernández, A. *see* **Gusein-Zade, S. M.; et al.**, **98j:32043**
Oaku, Toshinori An algorithm of computing b-functions. **98b:32032**
Tsuboi, Syôji Cubic hyper-resolutions of analytic varieties with hypersurface ordinary singularities of dimension ≤ 5. **98e:32062**
Urabe, Tohsuke Dynkin graphs, Gabrielov graphs, and triangle singularities. **98d:32039**
Zając, Mariusz The Milnor number of functions on singular hypersurfaces. (English summary) **98f:32037**

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Chen, Hao[1] A remark on liftable derivation of moduli algebras of isolated hypersurface singularities. (English summary) **98b:17020**
Damon, James N. Singular Milnor fibers and higher multiplicities for nonisolated complete intersections. **98k:32052**
Ishii, Shihoko The weighted blowing ups of singularities with $\kappa = 0$. **98g:14004**
Lando, S. K. Deformations of differential forms. (Russian) **98a:32049**
Libgober, Anatoly Position of singularities of hypersurfaces and the topology of their complements. (English summary) **98a:14058**
Massey, David B. ★ Lê cycles and hypersurface singularities. **98h:32061**
Oka, Mutsuo[1] ★ Non-degenerate complete intersection singularity. (English summary) **98j:32047**
O'Shea, Donal Computing invariants of hypersurface singularities. **98k:14003**
Parusiński, Adam A note on singularities at infinity of complex polynomials. (English summary) **98f:32036**
Păunescu, Laurenţiu (*with* Zaharia, Alexandru) On the Łojasiewicz exponent at infinity for polynomial functions. **98m:32050**
Yu, Jianming Stokes regions of a simple singularity. **98h:32060**
Zaharia, Alexandru *see* **Păunescu, Laurenţiu**, **98m:32050**

32S30 Deformations of singularities; vanishing cycles [see also 14B07]

Ebeling, Wolfgang (*with* Gusein-Zade, S. M.) Coxeter-Dynkin diagrams of fat points in $\mathbf{C}^2$ and of their stabilizations. **98b:32033**
Gusein-Zade, S. M. On the existence of deformations without critical points (the Teissier problem for functions of two variables). (Russian) **98f:32038**
— *see also* **Ebeling, Wolfgang**, **98b:32033**
Lando, S. K. Deformations of differential forms. (Russian) **98a:32049**
Martin, Bernd (*with* Siebert, Thomas) Graded Lie algebras and quasihomogeneous complete intersection singularities. **98b:32034**
Miyajima, Kimio A Bogomolov-type smoothness on deformations of quasi-Gorenstein cone singularities of dim ≥ 4. **98g:32062**
Păunescu, Laurenţiu (*with* Zaharia, Alexandru) On the Łojasiewicz exponent at infinity for polynomial functions. **98m:32050**
Siebert, Thomas *see* **Martin, Bernd**, **98b:32034**
Stevens, Jan On the computation of versal deformations. **98c:32048**
Zaharia, Alexandru *see* **Păunescu, Laurenţiu**, **98m:32050**

Items with secondary classifications in 32S30

Altmann, Klaus Infinitesimal deformations and obstructions for toric singularities. (English summary) **98j:14008**
Chéniot, D. Vanishing cycles in a pencil of hyperplane sections of a nonsingular quasiprojective variety. **98b:14025**
Damon, James N. Singular Milnor fibers and higher multiplicities for nonisolated complete intersections. **98k:32052**
Eguchi, Tohru (*with* Yang, Sung-Kil) A new description of the E_6 singularity. (English summary) **98d:81081**
Houston, Kevin Local topology of images of finite complex analytic maps. **98g:32064**
Peraire, Rosa Tjurina number of a generic irreducible curve singularity. **98h:32059**
Shubladze, M. Hyperplane singularities of analytic functions of several complex variables. (English summary) **98c:32053**
Yang, Sung-Kil *see* **Eguchi, Tohru**, **98d:81081**

32S40 Monodromy; relations with differential equations and D-modules

Aleksandrov, Aleksandr G. (*with* Tanabé, Susumu[1]) Gauss-Manin connexions, logarithmic forms and hypergeometric functions. (English summary) **98j:32044**
Aomoto, Kazuhiko (*with* Kita, Michitake; Orlik, Peter; Terao, Hiroaki) Twisted de Rham cohomology groups of logarithmic forms. **98b:32035**
Biosca, Hélène Caractérisation de l'existence de polynômes de Bernstein relatifs associés à une famille d'applications analytiques. (English and French summaries) [Characterization of the existence of relative Bernstein polynomials associated to analytic maps] **98j:32045**
Briançon, J. Espaces conormaux relatifs. I. Conditions de transversalité. (English and French summaries) [Relative conormal spaces. I. Transversality conditions] **98i:32058**
Douai, Antoine (*with* Terao, Hiroaki) The determinant of a hypergeometric period matrix. **98j:32046**
Kimura, Hironobu On the homology group associated with the general Airy integral. **98g:32063**
Kita, Michitake *see* **Aomoto, Kazuhiko; et al.**, **98b:32035**
Namba, Makoto Branch loci and monodromy of normal singularities. **98e:32063**
Nguyen Si Minh (*with* Ziemian, Bogdan) A remark on Nilsson type integrals. (English summary) **98f:32039**
Orlik, Peter *see* **Aomoto, Kazuhiko; et al.**, **98b:32035**
Siersma, Dirk (*with* Tibăr, Mihai) Is the polar relative monodromy of finite order? An example. (English summary) **98c:32049**
Tanabé, Susumu[1] *see* **Aleksandrov, Aleksandr G.**, **98j:32044**
Terao, Hiroaki *see* **Aomoto, Kazuhiko; et al.**, **98b:32035** *and* **Douai, Antoine**, **98j:32046**
Tibăr, Mihai *see* **Siersma, Dirk**, **98c:32049**
(Ueno, Ryoichi) *see* **Namba, Makoto**, **98e:32063**
Vasil'ev, V. A. Ramification in integral geometry and monodromy of complex links. **98a:32050**
Ziemian, Bogdan *see* **Nguyen Si Minh**, **98f:32039**

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Adolphson, Alan (*with* Sperber, Steven) On twisted de Rham cohomology. (English summary) **98k:14027**
Cartier, Pierre Développements récents sur les groupes de tresses. Applications à la topologie et à l'algèbre. (English summary) [Recent developments in the study of braid groups. Applications to topology and algebra] (*see* **98e:58004**)
Golubeva, V. A. (*with* Leksin, V. P.) Quadratic relations in the cohomology of generalized colored braids, and Dunkl identities. (Russian) **98c:32051**
— (*with* Leksin, V. P.) On the Veselov-Felder restoration formula in the theory of Calogero-Sutherland operators. (Russian. English and Russian summaries) **98c:58068**
Kato, Mitsuo Appell's F_4 with finite irreducible monodromy group. **98f:33023**
Le Dimet, Jean-Yves À propos de l'équation $X^2 = Y^3$. [On the equation $X^2 = Y^3$] **98e:14030**
Leksin, V. P. *see* **Golubeva, V. A.**, **98c:32051** *and* **98c:58068**
McCrory, Clint (*with* Parusiński, Adam) Complex monodromy and the topology of real algebraic sets. (English summary) **98d:14075**
Parusiński, Adam *see* **McCrory, Clint**, **98d:14075**
Sabbah, Claude Stokes phenomenon in dimension two. **98e:32012**
Sperber, Steven *see* **Adolphson, Alan**, **98k:14027**

32S45 Modifications; resolution of singularities [see also 14E15]

Ohsawa, Takeo A report on isolated singularities by transcendental methods. **98k:32051**
Oka, Mutsuo[1] ★ Non-degenerate complete intersection singularity. (English summary) **98j:32047**
Peternell, Thomas Modifications. (Russian) (*see* **98f:32001**)
Suzuki, Masahiko Blow analytic moduli of analytic functions of two variables. **98i:32059**
Taher, Sinane Sur le lieu polaire de morphismes analytiques complexes. (English and French summaries) [On the polar locus of complex analytic morphisms] **98c:32050**

Items with secondary classifications in 32S45

Aspinwall, Paul S. Resolution of orbifold singularities in string theory. (English summary) **98b:81174**
Bershadsky, Michael (*with* Johansen, Andrei) Colliding singularities in F-theory and phase transitions. (English summary) **98e:81132**

Bierstone, Edward (*with* Milman, Pierre D.) Canonical desingularization in characteristic zero by blowing up the maximum strata of a local invariant. (English summary) **98e:14010**
Fukui, Toshizumi Seeking invariants for blow-analytic equivalence. (English summary) **98c:32009**
Gusein-Zade, S. M. On the existence of deformations without critical points (the Teissier problem for functions of two variables). (Russian) **98f:32038**
Hironaka, H. On the presentations of resolution data. **98h:14020**
Johansen, Andrei *see* **Bershadsky, Michael**, **98e:81132**
Markushevich, D. G. Resolution of $\mathbf{C}^3/H_{168}$. **98i:14019**
Milman, Pierre D. *see* **Bierstone, Edward**, **98e:14010**
(Moh, T. T.) *see* **Hironaka, H.**, **98h:14020**
Namba, Makoto Branch loci and monodromy of normal singularities. **98e:32063**
Tsuboi, Syōji Cubic hyper-resolutions of analytic varieties with hypersurface ordinary singularities of dimension ≤ 5. **98e:32062**
(Ueno, Ryoichi) *see* **Namba, Makoto**, **98e:32063**
Verbitsky, Misha Desingularization of singular hyper-Kähler varieties. I. (English summary) **98e:32009**

32S50 Topological aspects: Lefschetz theorems, topological classification, invariants

Houston, Kevin Local topology of images of finite complex analytic maps. **98g:32064**
Ivanov, O. A. (*with* Netsvetaev, N. Yu.) Estimates for the number of singularities of a complex hypersurface, and related questions. (Russian. Russian summary) **98e:32064**
Némethi, András Variation structures: results and open problems. **98g:32065**
Netsvetaev, N. Yu. On the topological structure of complex hypersurfaces with quadratic singularities. (Russian. Russian summary) **98e:32065**
— *see also* **Ivanov, O. A.**, **98e:32064**
Yu, Jianming Stokes regions of a simple singularity. **98h:32060**

Items with secondary classifications in 32S50

Chéniot, D. Vanishing cycles in a pencil of hyperplane sections of a nonsingular quasiprojective variety. **98h:14025**
Fourrier, Laurence Topologie d'un polynôme de deux variables complexes au voisinage de l'infini. (English and French summaries) [Topology of a polynomial of two complex variables in a neighborhood of infinity] **98e:32066**
Silvotti, Roberto On a conjecture of Varchenko. **98d:32038**
Veys, Willem Zeta functions for curves and log canonical models. **98k:11176**

32S55 Milnor fibration; relations with knot theory [see also 57M25, 57Q45]

Damon, James N. Singular Milnor fibers and higher multiplicities. **98f:32040**
— Singular Milnor fibers and higher multiplicities for nonisolated complete intersections. **98k:32052**
Fourrier, Laurence Topologie d'un polynôme de deux variables complexes au voisinage de l'infini. (English and French summaries) [Topology of a polynomial of two complex variables in a neighborhood of infinity] **98e:32066**
Golubeva, V. A. (*with* Leksin, V. P.) Quadratic relations in the cohomology of generalized colored braids, and Dunkl identities. (Russian) **98c:32051**
Leksin, V. P. *see* **Golubeva, V. A.**, **98c:32051**
Massey, David B. ★ Lê cycles and hypersurface singularities. **98h:32061**
Pichon, Anne Singularities of complex surfaces with equations $z^k - f(x, y) = 0$. **98c:32052**
Shubladze, M. Hyperplane singularities of analytic functions of several complex variables. (English summary) **98c:32053**
Tibăr, Mihai A supplement to the Iomdin-Lê theorem for singularities with one-dimensional singular locus. (English summary) **98f:32041**
— On the monodromy fibration of polynomial functions with singularities at infinity. (English and French summaries) **98e:32067**

Items with secondary classifications in 32S55

Blanloeil, Vincent (*with* Michel, Françoise) A theory of cobordism for non-spherical links. (English summary) **98h:57049**
Dudziński, Piotr Topological invariants of germs of real analytic functions. **98b:32031**
Michel, Françoise *see* **Blanloeil, Vincent**, **98h:57049**
Némethi, András Variation structures: results and open problems. **98g:32065**
Ohsawa, Takeo A report on isolated singularities by transcendental methods. **98k:32051**
Oka, Mutsuo[1] ★ Non-degenerate complete intersection singularity. (English summary) **98j:32047**
Shimada, Ichiro Picard-Lefschetz theory for the universal coverings of complements to affine hypersurfaces. (English summary) **98b:14008**
Siersma, Dirk (*with* Tibăr, Mihai) Is the polar relative monodromy of finite order? An example. (English summary) **98c:32049**
Tibăr, Mihai *see* **Siersma, Dirk**, **98c:32049**

32S60 Stratifications; constructible sheaves; intersection cohomology [see also 58C27]

Colin, Violaine Spécialisation du foncteur de Whitney. (English and French summaries) [Specialization of the Whitney functor] **98d:32040**
Ferrarotti, Massimo Some results about volume of stratified sets. **98k:32053**
Houston, Kevin Image multiple point spaces and rectified homotopical depth. (English summary) **98m:32051**
Massey, David B. MacPherson-Chern classes and characteristic polar cycles. **98e:32068**
Zvonkine, Dimitri Transversal multiplicities of the Lyashko-Looijenga map. (English and French summaries) **98k:32054**

Items with secondary classifications in 32S60

Brasselet, Jean-Paul Aspects combinatoires des singularités. [Combinatorial aspects of singularities] **98b:55007**
Eyral, Christophe Homotopie des pinceaux de sections hyperplanes. (English and French summaries) [Homotopy of a pencil of hyperplane sections] **98d:14026**
Massey, David B. ★ Lê cycles and hypersurface singularities. **98h:32061**
Merle, Michel On some points of local analytic geometry. **98m:32007**
Trotman, David Espaces stratifiés réels. [Real stratified spaces] **98k:58013**

32S65 Singularities of holomorphic vector fields

Baryshnikov, Yulii Maratovich Bifurcation diagrams of quadratic differentials. (English and French summaries) **98d:32041**
Brunella, Marco Some remarks on indices of holomorphic vector fields. (English summary) **98m:32052**
Carrell, James B. Vector fields, residues and cohomology. **98k:32055**
Hwang, Jun-Muk Holomorphic vector fields with totally degenerate zeroes. (English summary) **98b:32036**
Paul, Emmanuel Connectedness of the fibers of a Liouvillian function. (English summary) **98i:32060**
Stolovitch, Laurent Classification analytique de champs de vecteurs 1-résonnants de $(\mathbf{C}^n, 0)$. (French summary) [Analytic classification of 1-resonant vector fields in $(\mathbf{C}^n, 0)$] **98b:32037**
Suwa, Tatsuo Indices and residues of holomorphic vector fields on singular varieties. **98d:32042**
Zvonkine, Dimitri Multiplicities of the Lyashko-Looijenga map on its strata. (English and French summaries) **98h:32062**

Items with secondary classifications in 32S65

Brasselet, Jean-Paul Indices of vectorfields and residues of singular foliations after Nash transformation (about joint works with M. H. Schwartz and T. Suwa). **98e:32043**
Ecalle, Jean (*with* Vallet, Bruno) Passive and active resonance. Non-linear resurgence and isoresurgent deformations. (English summary) **98e:58148**
Gérard, Raymond (*with* Tahara, Hidetoshi) On the factorization of an equation of the form $F(x, y, \tau y) = 0$ where τ is a meromorphic vector field. **98d:35005**
Houston, Kevin Local topology of images of finite complex analytic maps. **98g:32064**
Khanedani, Bahman (*with* Suwa, Tatsuo) First variation of holomorphic forms and some applications. (English summary) **98i:32052**
Stolovitch, Laurent Forme normale de champs de vecteurs commutants. (English and French summaries) [Normal form of commuting vector fields] **98e:58151**
Suwa, Tatsuo *see* **Khanedani, Bahman**, **98i:32052**
Tahara, Hidetoshi *see* **Gérard, Raymond**, **98d:35005**
Vallet, Bruno *see* **Ecalle, Jean**, **98e:58148**

32S70 Other operations on singularities

Items with secondary classifications in 32S70

Feng, Jiaxin *see* **Jiang, Guang Feng**, **98f:52013**
Jiang, Guang Feng (*with* Feng, Jiaxin) An algorithm to produce the structure sequence of arrangement. (English summary) **98f:52013**
Mardešić, P. (*with* Moser-Jauslin, L.; Rousseau, Christiane) Darboux linearization and isochronous centers with a rational first integral. (English summary) **98h:34061**
Menous, Frédéric The well-behaved Catalan and Brownian averages and their applications to real resummation. (English summary) **98g:30007**
Moser-Jauslin, L. *see* **Mardešić, P.; et al.**, **98h:34061**
Pushkar', I. A. A multidimensional generalization of Il'yashenko's theorem on abelian integrals. (Russian. Russian summary) **98k:58183**
Rousseau, Christiane *see* **Mardešić, P.; et al.**, **98h:34061**
Yoshikawa, Ken-Ichi On the spectral zeta functions of Kähler varieties with conical singularities. **98i:58244**
Zvonkine, Dimitri Transversal multiplicities of the Lyashko-Looijenga map. (English and French summaries) **98k:32054**

33–XX Special functions {33–XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11–XX; for representation theory, see 22Exx.}

33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 33–00

(Brychkov, Yu. A.) *see* **Kölbig, K. S.**
(Byrd, P. F.) *see* **Kölbig, K. S.**
(Erdélyi, A.) *see* **Kölbig, K. S.**
Fikioris, George Table erratum: *Table of integrals, series, and products*, [English translation, Fifth edition, Academic Press, Boston, MA, 1994; MR 94g:00008] by I. S. Gradshteyn and I. M. Ryzhik.
(Friedman, M. D.) *see* **Kölbig, K. S.**
(Gradshtein, I. S.) *see* **Fikioris, George**
Kölbig, K. S. Table errata: *Integrals and series. Vol. 1* [English translation, Gordon & Breach, New York, 1986; MR 88f:00013] by A. P. Prudnikov, Yu. A. Brychkov and O. I. Marichev.
— Table errata: *Tables of integral transforms. Vol. 1* [McGraw-Hill, New York, 1954; MR **15**, 868a] by A. Erdélyi, W. Magnus, F. Oberhettinger and F. G. Tricomi.
— Table errata: *Handbook of elliptic integrals for engineers and scientists* [Second edition, Springer, New York, 1971; MR **43** #3506] by P. F. Byrd and M. D. Friedman.
— Table errata: *Integrals and series. Vol. 4* [Gordon and Breach, New York, 1992; MR 93c:44003] by A. P. Prudnikov, Yu. A. Brychkov and O. I. Marichev.
(Magnus, W.) *see* **Kölbig, K. S.**
(Marichev, O. I.) *see* **Kölbig, K. S.**
(Oberhettinger, F.) *see* **Kölbig, K. S.**
(Prudnikov, Anatolii Platonovich) *see* **Kölbig, K. S.**
(Ryzhik, I. M.) *see* **Fikioris, George**
(Tricomi, F. G.) *see* **Kölbig, K. S.**

33–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 33–01

Khan, Mumtaz Ahmad Discrete hypergeometric functions and their properties.
Lloyd, Keith Chebyshev polynomials and Dong's formula. (English summary)

33–02 Research exposition (monographs, survey articles)

Ahmad, Munir *see* **Chaudhry, M. Aslam**
Chaudhry, M. Aslam (*with* Ahmad, Munir) A probabilistic proof of the series representation of the Macdonald function with applications. (English summary)
Feinsilver, Philip (*with* Schott, René) ★ Algebraic structures and operator calculus. Vol. II. (English summary) **98m:33001**
Kalnins, Ernest G. Special functions, Lie theory and partial differential equations. (English summary) **98i:33001**
Muldoon, Martin E. Convexity properties of special functions and their zeros. (English summary) (*see* **98k:00021**)
Schott, René *see* **Feinsilver, Philip**, **98m:33001**

Items with secondary classifications in 33–02

Koelink, H. Tjerk Convolution and addition theorems for q-orthogonal polynomials. (English summary) **98f:33035**
Koornwinder, Tom H. Special functions associated with root systems: recent progress. (*see* **98h:00042**)
Yoshida, Masaaki ★ Hypergeometric functions, my love. **98k:33024**

33–03 Historical (must also be assigned at least one classification number from Section 01)

Lindqvist, Peter (*with* Peetre, Jaak) Erik Lundberg and the hypergoniometric functions. (Swedish. English summary) **98m:33002**
(Lundberg, Erik) *see* **Lindqvist, Peter**, **98m:33002**
Peetre, Jaak *see* **Lindqvist, Peter**, **98m:33002**

Items with secondary classifications in 33–03

(Arscott, Felix M.) *see* **Sleeman, Brian D.**
Sleeman, Brian D. Felix M. Arscott (1922–1996).

33–04 Explicit machine computation and programs (not the theory of computation or programming)

Parihar, Champa Lal *see* **Raffee, Vadla Mohammad**, **98f:33001**
Raffee, Vadla Mohammad (*with* Parihar, Champa Lal) Computational method for the hypergeometric function ${}_3F_2(a,b,c;d,e;z)$. (English summary) **98f:33001**

Items with secondary classifications in 33–04

El-Gabali, Magdi A. New results on the approximations of the generalised elliptic-type integrals. (English and Arabic summaries)
Galue, Leda (*with* Kalla, Shyam L.; Kiryakova, Virginia S.) Single term approximations of hypergeometric functions. (English summary) **98k:33005**
Kalla, Shyam L. *see* **Galue, Leda; et al.**, **98k:33005**
Kiryakova, Virginia S. *see* **Galue, Leda; et al.**, **98k:33005**

33–06 Proceedings, conferences, collections, etc.

(Alfaro, Manuel) *see* **Workshop: Orthogonal Polynomials in Mathematical Physics**, **98b:33001**
(Álvarez-Nodarse, R.) *see* **Workshop: Orthogonal Polynomials in Mathematical Physics**, **98b:33001**
(López Lagomasino, G.) *see* **Workshop: Orthogonal Polynomials in Mathematical Physics**, **98b:33001**
(Marcellán, Francisco) *see* **Workshop: Orthogonal Polynomials in Mathematical Physics**, **98b:33001**
(Ronveaux, André) *see* **Workshop: Orthogonal Polynomials in Mathematical Physics**, **98b:33001**

Items listed otherwise than by author

Festschrift:
Ronveaux, André ★ International Workshop on Orthogonal Polynomials in Mathematical Physics. **98b:33001**
Leganés ★ International Workshop on Orthogonal Polynomials in Mathematical Physics. **98b:33001**
Workshop:
Orthogonal Polynomials in Mathematical Physics ★ International Workshop on Orthogonal Polynomials in Mathematical Physics. **98b:33001**

Items with secondary classifications in 33–06

(Harnad, John) *see* **Bispectral problem**, **98k:00011**
(Kasman, Alex) *see* **Bispectral problem**, **98k:00011**

Items listed otherwise than by author

Bispectral problem ★ The bispectral problem. **98k:00011**
Montreal, PQ ★ The bispectral problem. **98k:00011**
Workshop:
Bispectral Problem ★ The bispectral problem. **98k:00011**

33Bxx Elementary classical functions

33B10 Exponential and trigonometric functions

Byrne, Graeme J. (*with* Smith, Simon J.) Some integer-valued trigonometric sums. (English summary) **98k:33001**
Denisov, Yu. M. On a class of generalized trigonometric and hyperbolic functions. (Russian. English, Russian and Uzbek summaries)
Euler, Russell Evaluating a family of integrals. **98i:33002**
Gonzalez Vieli, Francisco Javier Dirichlet problem and hyperbolic series. (English summary) **98b:33002**
Lloyd, Keith Chebyshev polynomials and Dong's formula. (English summary)
Merkle, Milan Logarithmic convexity and inequalities for the gamma function. (English summary) **98c:33001**
Smith, Simon J. *see* **Byrne, Graeme J.**, **98k:33001**

Items with secondary classifications in 33B10

Bronstein, Manuel ★ Symbolic integration. I. **98a:68104**
Calogero, Francesco Remarkable matrices and trigonometric identities. (English summary) **98e:15020**
(Caviness, B. F.) *see* **Bronstein, Manuel**, **98a:68104**
Dunster, T. M. Asymptotics of the generalized exponential integral, and error bounds in the uniform asymptotic smoothing of its Stokes discontinuities. (English summary) **98b:41031**
Paszkowski, S. Fast convergent quasipower series for some elementary and special functions. (English summary) **98g:33004**
Suslov, Sergei K. "Addition" theorems for some q-exponential and q-trigonometric functions. (English summary) **98i:33023**
Wojtkowiak, Zdzisław Functional equations of iterated integrals with regular singularities. **98b:14018**

33B15 Gamma, beta and polygamma functions

Ahern, Patrick (*with* Rudin, Walter) Geometric properties of the gamma function. **98i:33003**
Al-Musallam, Fadhel (*with* Kalla, Shyam L.) Asymptotic expansions for generalized gamma and incomplete gamma functions. (English summary) **98m:33003**
Anderson, Glen D. (*with* Qiu, Songliang) A monotoneity property of the gamma function. (English summary) **98h:33001**
Casolaro, F. (*with* D'Aniello, C.; Giovine, M. P.) Asymptotic inequalities for $\lg\Gamma(x)$. **98c:33002**
Chaudhry, M. Aslam (*with* Qadir, Asghar; Rafique, M.; Zubair, S. M.) Extension of Euler's beta function. (English summary) **98j:33001**
Choi, Junesang (*with* Nam, Young Man) The first Eulerian integral. **98g:33001**
— A proof of the most important identity involved in the beta function. (English summary)
— (*with* Srivastava, Hari M.) Gamma function representation for some definite integrals. (English summary) **98g:33002**
— (*with* Nash, Charles) Integral representations of the Kinkelin's constant A. (English summary) **98j:33002**
D'Aniello, C. *see* **Casolaro, F.; et al.**, **98c:33002**
Deakin, Michael A. B. *see* **Murray-Hogeboom, Karen**

Giovine, M. P. *see* **Casolaro, F.; et al., 98c:33002**
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Peng, Qiu Shi An improved upper bound for the parameter θ in Stirling's formula. (Chinese. English and Chinese summaries)
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Tu, Shih-Tong (*with* Chyan, Ding-Kuo; Wu, Tsu-Chen) Method for finding $D_z^{-n} \log^k z$ via fractional calculus and Psi functions. (English summary) **98g:26010**
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33B20 Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)

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Dunster, T. M. Error analysis in a uniform asymptotic expansion for the generalised exponential integral. (English summary) **98k:33003**
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33B99 None of the above, but in this section

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33Cxx Hypergeometric functions

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33C05 Classical hypergeometric functions, ${}_2F_1$

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Do-Nhat, Tam (*with* MacPhie, R. H.) On the accurate computation of the prolate spheroidal radial functions of the second kind. (English summary) **98b:33004**
Fal'kovskiĭ, L. A. (*with* Klama, S.) Integral relations and symmetry group expansions for the Helmholtz equation. (English summary) **98b:33005**
Fedotova, I. A. Generalized Legendre functions: limit relations, generating functions and integral representations. (Russian. Russian summary) **98f:33004**
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— (*with* Gehlot, Kuldeep S.; Saïgo, Megumi) Stieltjes transform of a class of generalized functions. (English summary) **98h:46040**
Choi, Junesang A proof of the most important identity involved in the beta function. (English summary)
— (*with* Srivastava, Hari M.) Gamma function representation for some definite integrals. (English summary) **98g:33002**
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Tremblay, Richard (*with* Fugère, B. J.) Commutativity of the fractional operator $Z^{\alpha}D_z^{\beta}Z^{\gamma}$ and a generalization of a Glaisher's result. (English summary) **98m:26003**

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33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$

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Kasman, Alex (*with* Rothstein, Mitchell) Bispectral Darboux transformations: the generalized Airy case. (English summary) **98g:33005**

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Actor, A. (*with* Bender, I.) The zeta function constructed from the zeros of the Bessel function. (English summary) **98e:33009**

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Chakrabarti, Aloknath (*with* Mandal, Nanigopal) Solutions of some dual integral equations. **98m:45007**

Cougo-Pinto, M. V. (*with* Farina de Souza, Carlos; Tort, A.) Schwinger's formula for the Casimir effect at finite temperature. (English summary) **98j:81218**

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Junker, Georg (*with* Leschke, Hajo) Exact thermostatic results for the n-vector model on the harmonic chain. (*see* **98b:82003**)

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Zhang, Jun² (*with* Belward, John A.) Chebyshev series approximations for the Bessel function $Y_n(z)$ of complex argument. (English summary) **98h:65011**

33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$

Abad, Julio (*with* Sesma, Javier) A new expansion of the confluent hypergeometric function in terms of modified Bessel functions. (English summary) **98f:33010**

Essawy, A. R. Hypergeometric solutions of a parabolic equation related to heat conduction. (English summary)

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Li, Xian-Jin On reproducing kernel Hilbert spaces of polynomials. (English summary) **98g:46031**

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Muldoon, Martin E. Convexity properties of special functions and their zeros. (English summary) (*see* **98k:00021**)

33C20 Generalized hypergeometric series, ${}_pF_q$

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Babich, V. M. (*with* Cherednichenko, K. D.) On Fock's type asymptotics of Legendre functions. (English summary) **98f:33011**

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Exton, Harold New generating relations for the multivariate biorthogonal Wilson polynomials. (English summary) **98g:33008**

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Exton, Harold New generating relations for the multivariate biorthogonal Wilson polynomials. (English summary) **98g:33008**
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Lapointe, Luc (*with* Vinet, Luc) Appell functions and the Pöschl-Teller potential. (English summary) **98j:81069**
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33C70 Other hypergeometric functions and integrals in several variables

Agrawal, Manoj Kumar Double summation formulas for generalized hypergeometric function of two variables. (English summary)
Bhatt, R. C. *see* **Samtani, R. K., 98d:33005**
Billingham, J. (*with* King, Andrew C.) Uniform asymptotic expansions for the Barnes double gamma function. (English summary) **98i:33016**
Exton, Harold On the reducibility of the Kampé de Fériet function. (English summary) **98m:33039**
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Aomoto, Kazuhiko (*with* Kita, Michitake; Orlik, Peter; Terao, Hiroaki) Twisted de Rham cohomology groups of logarithmic forms. **98b:32035**
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33C75 Elliptic integrals as hypergeometric functions

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33C80 Connections with groups, algebras, root systems and related topics

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33C90 Applications

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Banerji, P. K. (*with* Choudhury, Sudipto) Laguerre polynomial and heat conduction in the region $(0, \infty)$. (English summary)
Chaurasia, V. B. L. (*with* Sharma, Rajendra Pal) Application of Fox's H-function, the multivariable H-function and a general class of polynomials in angular displacement in a shaft. (English summary)
Choi, Junesang (*with* Seo, Tae Young) Evaluation of some infinite series. (English summary) **98k:33027**
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Saxena, Ram Kishore (*with* Ram, Chena; Dave, O. P.) Integrals associated with Gauss's hypergeometric series, multivariable H-function and a general class of polynomials. (English summary) **98b:33033**

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33D05 q-gamma functions, q-beta functions and integrals

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Jain, Vinod Kumar (*with* Verma, Arun) A q-analogue of Watson's product formula and its applications. (English summary) **98k:33031**
Kaneko, Jyoichi q-Selberg integrals and Macdonald polynomials. (English summary) **98k:33026**
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— (*with* Vinet, Luc; Zhedanov, A. S.) Spectral transformations, self-similar reductions and orthogonal polynomials. (English summary)
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Uvarov, V. B. *see* **Nikiforov, A. F., 98b:33012**
Verma, Arun *see* **Jain, Vinod Kumar, 98k:33031**
Vinet, Luc *see* **Spiridonov, Vyacheslav P.; et al.**
Wei, Hong Zeng (*with* Zhang, Yi Bin) A formula for the number of solutions to alternate matrix equations over finite fields and its q-hypergeometric series representation. (Chinese. English and Chinese summaries) **98m:15022**
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33D55 Basic spherical functions, spherical harmonics (continuous and discrete)

Rahman, Mizan (*with* Tariq, Qazi M.) Poisson kernel for the associated continuous q-ultraspherical polynomials. (English summary) **98k:33038**
Tariq, Qazi M. *see* **Rahman, Mizan**, **98k:33038**

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Thangavelu, Sundaram *see* **Pati, V.; et al.**, **98g:42046**

33D60 Basic hypergeometric integrals and functions defined by them

Items with secondary classifications in 33D60

Askey, Richard A. (*with* Rahman, Mizan; Suslov, Sergei K.) On a general q-Fourier transformation with nonsymmetric kernels. (English summary) **98m:42033**
Ismail, Mourad E. H. (*with* Rahman, Mizan; Suslov, Sergei K.) Some summation theorems and transformations for q-series. (English summary) **98e:33005**
Qiu, Songliang Agard's η-distortion function and Schottky's theorem. (English summary) **98i:30022**
Rahman, Mizan *see* **Ismail, Mourad E. H.; et al.**, **98e:33005** *and* **Askey, Richard A.; et al.**, **98m:42033**
Stokman, Jasper V. Multivariable big and little q-Jacobi polynomials. (English summary) **98f:33034**
Suslov, Sergei K. *see* **Ismail, Mourad E. H.; et al.**, **98e:33005** *and* **Askey, Richard A.; et al.**, **98m:42033**

33D65 Bibasic functions and multiple bases

Singh, Udai Bahadur Some summation formula for multibasic hypergeometric series. (English summary) **98g:33032**
Wang, Tian Ming (*with* Zhang, Xiang De) Two summation formulas for basic bilateral series. (English summary) (*see* **98e:05001**)
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Gasper, George Elementary derivations of summation and transformation formulas for q-series. (English summary) **98f:33030**
Singh, Shobh Nath Certain transformation formulae for basic and bibasic hypergeometric series. (English summary) **98i:33024**

33D70 Other basic hypergeometric functions and integrals in several variables

Denis, Remy Y. (*with* Pathan, M. A.) On certain q-polynomials and q-fractional derivative. **98m:33048**
Khan, Mumtaz Ahmad (*with* Shukla, Ajay Kumar) Transformations for q-Lauricella functions.
Pathan, M. A. *see* **Denis, Remy Y.**, **98m:33048**
Shukla, Ajay Kumar *see* **Khan, Mumtaz Ahmad**

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33D80 Connections with groups, algebras, and related topics

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Bajracharya, Shanti Group-theoretic study of certain generating function of Brenke type polynomials. (English summary) **98b:33039**
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Dijkhuizen, Mathijs S. Some remarks on the construction of quantum symmetric spaces. (English summary) **98c:33020**
— *see also* **Noumi, Masatoshi; et al.**, **98b:33040**
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— Addition formulas for q-special functions. (English summary) **98d:33013**
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— (*with* Dijkhuizen, Mathijs S.; Sugitani, Tetsuya) Multivariable Askey-Wilson polynomials and quantum complex Grassmannians. (English summary) **98b:33040**
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Atakishiev, N. M. Difference equations and some of their solutions. (English summary) **98g:39001**
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— (*with* Kubo, Harunobu; Odake, Satoru; Shiraishi, Jun'ichi) Quantum $\mathcal{W}_N$ algebras and Macdonald polynomials. (English summary) **98h:17029**
— *see also* **Shiraishi, Jun'ichi; et al.**, **98h:17030**
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— Addition formula for q-disk polynomials. (English summary) **98i:33026**
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Frenkel, Igor B. (*with* Turaev, Vladimir G.) Trigonometric solutions of the Yang-Baxter equation, nets, and hypergeometric functions. **98i:17015**
— (*with* Turaev, Vladimir G.) Elliptic solutions of the Yang-Baxter equation and modular hypergeometric functions. **98k:33034**
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Giachetti, Riccardo *see* **Bonechi, F.; et al.**, **98j:81140**
Golubeva, V. A. (*with* Leksin, V. P.) Quantum problems with symmetries and generalized Knizhnik-Zamolodchikov equations. (English summary) **98j:81149**
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Jimbo, Michio (*with* Kedem, Rinat; Konno, Hitoshi; Miwa, Tetsuji; Petersen, Jens-Ulrik H.) Level-0 structure of level-1 $U_q(\widehat{\mathrm{sl}}_2)$-modules and Macdonald polynomials. (English summary) **98b:17015**
Kalnins, Ernest G. Models of Q algebra representations. (English summary) (*see* **98c:17001**)
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Koornwinder, Tom H. Special functions associated with root systems: recent progress. (*see* **98h:00042**)
— Compact quantum groups and q-special functions. **98h:17017**
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Opdam, Eric M. Harmonic analysis for certain representations of graded Hecke algebras. **98f:33025**
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Pasquier, Vincent Scattering matrices and affine Hecke algebras. (English summary) (*see* **98e:81002**)
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— The Yangian symmetry in the spin Calogero model and its applications. (English summary) **98j:81391**
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Thibon, Jean-Yves *see* **Lascoux, Alain; et al., 98c:05167**
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Volkov, A. Yu. Beyond the "pentagon identity". (English summary) **98d:81034**
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33D90 Applications

Floreanini, Roberto (*with* Vinet, Luc) Symmetries of q-deformed heat equations. (English summary) **98j:33014**
Kemp, C. David A q-logarithmic distribution. (English summary) **98f:33036**
Singh, Satya Prakash Certain integrals involving basic hypergeometric functions. II.
Vinet, Luc *see* **Floreanini, Roberto, 98j:33014**

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Andersen, Erik Sparre (*with* Larsen, Mogens Esrom) Combinatorial identities: a generalization of Dougall's identity. (English summary) **98g:05017**
Chung, Won-Sang (*with* Klimyk, A. U.) On position and momentum operators in the q-oscillator algebra. (English summary) **98a:81085**
Floris, Paul G. A. (*with* Koelink, H. Tjerk) A commuting q-analogue of the addition formula for disk polynomials. (English summary) **98j:33012**
Frohman, Charles (*with* Kania-Bartoszyńska, Joanna) SO(3)-topological quantum field theory. (English summary) **98b:57028**
Kania-Bartoszyńska, Joanna *see* **Frohman, Charles, 98b:57028**
Kemp, Adrienne W. On modified q-Bessel functions and some statistical applications. (English summary) **98g:33026**
Klimyk, A. U. *see* **Chung, Won-Sang, 98a:81085**
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Satsuma, J. *see* **Tokihiro, Tetsuji; et al., 98m:33042**
Takebe, Takashi A system of difference equations with elliptic coefficients and Bethe vectors. (English summary) **98j:32020**
Tokihiro, Tetsuji (*with* Satsuma, J.; Willox, Ralph) On special function solutions to nonlinear integrable equations. (English summary) **98m:33042**
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33D99 None of the above, but in this section

Items with secondary classifications in 33D99

Duverney, Daniel De Leibniz à Euler, en passant par Jacobi. [From Leibniz to Euler, by way of Jacobi] **98g:01030**
Johnson, Warren P. A q-analogue of Faà di Bruno's formula. (English summary) **98b:39008**
Petkovšek, Marko (*with* Wilf, Herbert S.) When can the sum of $(1/p)$th of the binomial coefficients have closed form? (English summary) **98d:11021**
Wilf, Herbert S. *see* **Petkovšek, Marko, 98d:11021**

33Exx Other special functions

33E05 Elliptic functions and integrals

Chouikha, Raouf Fonctions elliptiques et équations différentielles ordinaires. (English summary) [Elliptic functions and ordinary differential equations] **98k:33041**
Dimarogonas, A. D. *see* **Panteliou, S. D.; et al., 98b:33041**
El-Gabali, Magdi A. New results on the approximations of the generalised elliptic-type integrals. (English and Arabic summaries)
Hassenpflug, W. C. Elliptic integrals and the Schwarz-Christoffel transformation. (English summary) **98k:33042**
Katz, I. Norman *see* **Panteliou, S. D.; et al., 98b:33041**
Panteliou, S. D. (*with* Dimarogonas, A. D.; Katz, I. Norman) Direct and inverse interpolation for Jacobian elliptic functions, zeta function of Jacobi and complete elliptic integrals of the second kind. (English summary) **98b:33041**
Pintér, Ákos A note on the Epstein-Hubbell integral. (English summary) **98b:33042**
Walker, Peter L. ★ Elliptic functions. (English summary) **98g:33035**

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Anderson, Glen D. (*with* Qiu, Songliang; Vamanamurthy, Mavina K.) Inequalities for distortion functions and plane quasiconformal mappings. (English summary) **98g:30038**
Berndt, Bruce C. (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Explicit evaluations of the Rogers-Ramanujan continued fraction. **98c:11007**
— (*with* Chan, Heng Huat; Zhang, Liang-Cheng) Ramanujan's remarkable product of theta-functions. (English summary) **98k:33029**
Bukhshtaber, V. M. (*with* Ènol'skiĭ, V. Z.; Leĭkin, D. V.) Hyperelliptic Kleinian functions and applications. (English summary) **98b:14029**
Chan, Heng Huat *see* **Berndt, Bruce C.; et al., 98c:11007** *and* **98k:33029**
Dmitrieva, O. M. (*with* Malozëmov, V. N.) On a fast algorithm based on arithmetic-geometric means. (Russian. Russian summary) **98h:65005**
Ènol'skiĭ, V. Z. *see* **Bukhshtaber, V. M.; et al., 98b:14029**
Garif'yanov, F. N. Absolutely representing systems of elliptic functions. (Russian) **98h:30003**
Gesztesy, Fritz (*with* Sticka, W.) On a theorem of Picard. (English summary) **98m:34012**
Lee, Dong Soo *see* **Myung, Hyo Chul, 98a:53036**
Leĭkin, D. V. *see* **Bukhshtaber, V. M.; et al., 98b:14029**
(Leites, D.) *see* **Prasolov, Viktor, 98k:14064**
Malozëmov, V. N. *see* **Dmitrieva, O. M., 98h:65005**
Myung, Hyo Chul (*with* Lee, Dong Soo) Jacobi elliptic algebras of SO(3). (English summary) **98a:53036**
Noguchi, Junjiro ★ Introduction to complex analysis. **98m:30001**
Orchard, H. J. (*with* Wilson, Alan N., Jr.) Elliptic functions for filter design. (English summary) **98a:94004**
Paszkowski, S. Fast convergent quasipower series for some elementary and special functions. (English summary) **98g:33004**
Prasolov, Viktor (*with* Solov'ev, Yuriĭ Pavlovich) ★ Elliptic functions and elliptic integrals. (English summary) **98k:14064**
Qiu, Songliang (*with* Vamanamurthy, Mavina K.) Extremal rings and quasiconformal mappings. (English summary) **98k:30027**
— *see also* **Anderson, Glen D.; et al., 98g:30038**
Raghavan, Srinivasacharya (*with* Rangachari, S. S.) On Ramanujan's elliptic integrals and modular identities. **98b:11045**
Rangachari, S. S. *see* **Raghavan, Srinivasacharya, 98b:11045**
Schappacher, Norbert Some milestones of lemniscatomy. **98k:11074**
Solov'ev, Yuriĭ Pavlovich *see* **Prasolov, Viktor, 98k:14064**
Sticka, W. *see* **Gesztesy, Fritz, 98m:34012**
Valent, Galliano Co-recursivity and Karlin-McGregor duality for indeterminate moment problems. (English summary) **98c:44014**
Vamanamurthy, Mavina K. *see* **Anderson, Glen D.; et al., 98g:30038** *and* **Qiu, Songliang, 98k:30027**
Wilson, Alan N., Jr. *see* **Orchard, H. J., 98a:94004**
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33E10 Lamé, Mathieu, and spheroidal wave functions

Items with secondary classifications in 33E10

Jager, Lisette Fonctions de Mathieu et polynômes de Klein-Gordon. (English and French summaries) [Mathieu functions and Klein-Gordon polynomials] **98g:34135**
Ritter, Stefan On the computation of Lamé functions, of eigenvalues and eigenfunctions of some potential operators. (English summary)
Toth, John A. Eigenfunction localization in the quantized rigid body. **98a:58165**

33E15 Other wave functions

(Arscott, Felix M.) *see* **Heun's differential equations, 98a:33005**
(Duval, Anner) *see* **Heun's differential equations, 98a:33005**
(Heun, Karl) *see* **Heun's differential equations, 98a:33005**
(Maroni, P.) *see* **Heun's differential equations, 98a:33005**
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Biography:
Heun, Karl ★ Heun's differential equations. **98a:33005**

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33E20 Other functions defined by series and integrals

Actor, A. (*with* Bender, I.) The zeta function constructed from the zeros of the Bessel function. (English summary) **98e:33009**
Bender, I. *see* **Actor, A., 98e:33009**
Cengiz, Ahmet A study on the Epstein-Hubbell generalized elliptic-type integral using residue theory. (English summary) **98b:33043**
Corless, Robert M. (*with* Gonnet, Gaston H.; Hare, D. E. G.; Jeffrey, D. J.; Knuth, Donald E.) On the Lambert W function. (English summary) **98j:33015**
Gonnet, Gaston H. *see* **Corless, Robert M.; et al., 98j:33015**
Hare, D. E. G. *see* **Corless, Robert M.; et al., 98j:33015**
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Kvitsinskiĭ, A. A. Spectral functions of zeros of Bessel q-functions. (Russian. English and Russian summaries) **98e:33010**
Li, Rui Nian *see* **Lu, Liang Gang**
Lu, Liang Gang (*with* Li, Rui Nian) Inverse problems for integrals containing Fermi functions. (Chinese. Chinese summary)
Martorell, J. *see* **Sprung, D. W. L., 98m:33049**
Sprung, D. W. L. (*with* Martorell, J.) The symmetrized Fermi function and its transforms. (English summary) **98m:33049**
Zagier, Don The dilogarithm function in geometry and number theory. **98f:33037**

Items with secondary classifications in 33E20

Bailey, David H. (*with* Borwein, Jonathan M.; Borwein, P. B.) Ramanujan, modular equations, and approximations to pi or How to compute one billion digits of pi [MR 90d:11143]. (*see* **98f:00027**)
Borwein, Jonathan M. *see* **Bailey, David H.; et al., (98f:00027)**
Borwein, P. B. *see* **Bailey, David H.; et al., (98f:00027)**
Cathelineau, Jean-Louis Remarques sur les différentielles des polylogarithmes uniformes. (English and French summaries) [Remarks on the differentials of uniform polylogarithms] **98k:19006**
Chouikha, Raouf Fonctions elliptiques et équations différentielles ordinaires. (English summary) [Elliptic functions and ordinary differential equations] **98k:33041**
Cvijović, Djurdje (*with* Klinowski, Jacek) Continued-fraction expansions for the Riemann zeta function and polylogarithms. (English summary) **98a:11111**
Dèbes, Pierre (*with* Zannier, Umberto) Hilbert's irreducibility theorem and G-functions. **98k:11102**
Exton, Harold A non-trivial special case of the biconfluent Heun equation $[0, 1, 1_3]$: orthogonality of its solutions. (English summary) **98k:33043**
Kajiwara, Kenji (*with* Yamamoto, Kazushi; Ohta, Yasuhiro) Rational solutions for the discrete Painlevé II equation. (English summary) **98m:39046**
Kashaev, R. M. The hyperbolic volume of knots from the quantum dilogarithm. (English summary) **98b:57012**
Klinowski, Jacek *see* **Cvijović, Djurdje, 98a:11111**
Lee, M. Howard Polylogarithms and Riemann's ζ function. (English summary) **98m:11092**
Lewanowicz, Stanisław On the fourth-order difference equation for the associated Meixner polynomials. (English summary) **98i:33012**
Ohta, Yasuhiro *see* **Kajiwara, Kenji; et al., 98m:39046**
Terasoma, Tomohide Confluent hypergeometric functions and wild ramification. **98k:11080**
Yamamoto, Kazushi *see* **Kajiwara, Kenji; et al., 98m:39046**
Zannier, Umberto *see* **Dèbes, Pierre, 98k:11102**

33E30 Other functions coming from differential, difference and integral equations

Cherednik, Ivan Macdonald's evaluation conjectures and difference Fourier transform. **98i:33027a**
Cherednik, I. Erratum: "Macdonald's evaluation conjectures and difference Fourier transform". **98i:33027b**
Exton, Harold A non-trivial special case of the biconfluent Heun equation $[0, 1, 1_3]$: orthogonality of its solutions. (English summary) **98k:33043**
— A new family of pseudo-orthogonal polynomials. (Italian summary) **98k:33044**
Folland, Gerald B. Hermite distributions associated to the group $O(p, q)$. (English summary) **98g:33036**

Items with secondary classifications in 33E30

Aoki, Takashi Multiple-scale analysis for Painlevé transcendents with a large parameter. **98c:34091**
(Arscott, Felix M.) *see* **Heun's differential equations, 98a:33005**
Becker, Peter A. Normalization integrals of orthogonal Heun functions. (English summary) **98k:34005**
Cosgrove, Christopher M. Painlevé classification problems featuring essential singularities. (English summary) **98b:34011**
Danielyan, É. Kh. Theory of the isotropic scattering of radiation in a plane layer: feasibility of obtaining a complete analytical solution of the problem. (English summary) **98c:85002**
Dèbes, Pierre (*with* Zannier, Umberto) Hilbert's irreducibility theorem and G-functions. **98k:11102**
(Duval, Anner) *see* **Heun's differential equations, 98a:33005**
(Heun, Karl) *see* **Heun's differential equations, 98a:33005**
Hsu, Leetsch Charles (*with* Yu, Hong Quan) A unified approach to a class of Stirling-type pairs. (English summary) **98e:11024**
(Maroni, P.) *see* **Heun's differential equations, 98a:33005**
(Ronveaux, André) *see* **Heun's differential equations, 98a:33005**
(Schmidt, Dieter) *see* **Heun's differential equations, 98a:33005**
Shimomura, Shun An initial value problem associated with a Painlevé equation on the positive real axis. **98m:34006**
(Slavyanov, S. Yu.) *see* **Heun's differential equations, 98a:33005**
(Wolf, G.) *see* **Heun's differential equations, 98a:33005**
Yu, Hong Quan *see* **Hsu, Leetsch Charles, 98e:11024**
Zannier, Umberto *see* **Dèbes, Pierre, 98k:11102**

Items listed otherwise than by author

Biography:
Heun, Karl ★ Heun's differential equations. **98a:33005**
Heun's differential equations ★ Heun's differential equations. **98a:33005**

33E99 None of the above, but in this section

Hoang Ngoc Minh, V. Summations of polylogarithms via evaluation transform. (English summary) **98h:33012**

Items with secondary classifications in 33E99

(Hemmer, P. C.) *see* **Onsager, Lars, 98b:01042**
(Holden, Helge) *see* **Onsager, Lars, 98b:01042**
Ohyama, Yousuke Systems of nonlinear differential equations related to second order linear equations. **98a:34009**
Onsager, Lars ★ The collected works of Lars Onsager. **98b:01042**
Pilyuk, Ī. V. Special functions for investigating the critical properties of the three-dimensional Ising model in the framework of sixth-power measure density. (Ukrainian. English, Russian and Ukrainian summaries) **98a:82048**
(Ratkje, S. Kjelstrup) *see* **Onsager, Lars, 98b:01042**

Items listed otherwise than by author

Collected Works:
Onsager, Lars *see* **Onsager, Lars, 98b:01042**

34–XX Ordinary differential equations

34–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Polyanin, A. D. (*with* Zaĭtsev, V. F.) ★ Handbook of exact solutions for ordinary differential equations. **98c:34001**
Zaĭtsev, V. F. *see* **Polyanin, A. D., 98c:34001**

34–01 Instructional exposition (textbooks, tutorial papers, etc.)

Berry, John Stephen ★ Introduction to non-linear systems. (English summary) **98b:34001**
Borrelli, Robert L. (*with* Coleman, Courtney S.) ★ Differential equations. (English summary) **98g:34001**
Coleman, Courtney S. *see* **Borrelli, Robert L., 98g:34001**
Lanczos, Cornelius ★ Linear differential operators. (English summary) **98m:34001**
Meade, Douglas B. ODE models for the parachute problem. (English summary)
O'Malley, Robert E., Jr. ★ Thinking about ordinary differential equations. (English summary) **98c:34002**
Rus, Ioan A. ★ Ecuaţii diferenţiale, ecuaţii integrale şi sisteme dinamice. (Romanian) [Differential equations, integral equations and dynamical systems] **98a:34001**

Items with secondary classifications in 34–01

(Afagh, Fred F.) *see* **Merkin, D. R., 98f:34074**
Haberman, Richard ★ Mathematical models. (English summary) **98m:00019**
McMurran, Shawnee L. (*with* Tattersall, James J.) Cartwright and Littlewood on van der Pol's equation. (English summary) **98h:01020**
Merkin, D. R. ★ Introduction to the theory of stability. (English summary) **98f:34074**
(Smirnov, A. L.) *see* **Merkin, D. R., 98f:34074**
Tattersall, James J. *see* **McMurran, Shawnee L., 98h:01020**

34–02 Research exposition (monographs, survey articles)

Abdullin, R. Z. (*with* Anapol'skiĭ, L. Yu.; Kozlov, R. I.; Malikov, A. I.; Matrosov, Vladimir M.; Voronov, Avenir Arkad'evich; Zemlyakov, A. S.) ★ Vector Lyapunov functions in stability theory. **98g:34002**
Anapol'skiĭ, L. Yu. *see* **Abdullin, R. Z.; et al., 98g:34002**
Kozlov, R. I. *see* **Abdullin, R. Z.; et al., 98g:34002**
Malikov, A. I. *see* **Abdullin, R. Z.; et al., 98g:34002**
Matrosov, Vladimir M. *see* **Abdullin, R. Z.; et al., 98g:34002**
Voronov, Avenir Arkad'evich *see* **Abdullin, R. Z.; et al., 98g:34002**
Zemlyakov, A. S. *see* **Abdullin, R. Z.; et al., 98g:34002**

Items with secondary classifications in 34–02

Agarwal, Ravi P. (*with* Wong, Patricia J. Y.) ★ Advanced topics in difference equations. (English summary) **98i:39001**
Chernikova, O. S. *see* **Perestyuk, N. A., 98d:34018**
De Coster, Colette (*with* Habets, Patrick) Upper and lower solutions in the theory of ODE boundary value problems: classical and recent results. **98e:34034**
Erbe, Lynn (*with* Sree Hari Rao, V.) On the generalized Emden-Fowler and Thomas-Fermi differential equations. (English summary) **98b:34021**
Habets, Patrick *see* **De Coster, Colette, 98e:34034**
Perestyuk, N. A. (*with* Chernikova, O. S.) Stability of solutions of impulse systems. (Russian. English and Ukrainian summaries) **98d:34018**
Sree Hari Rao, V. *see* **Erbe, Lynn, 98b:34021**
Wong, Patricia J. Y. *see* **Agarwal, Ravi P., 98i:39001**

34–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 34–03

(Arscott, Felix M.) *see* **Sleeman, Brian D.**
Bagni, Giorgio Tomaso Differential equations in the works of Jacopo and Vincenzo Riccati. (Italian. English summary) **98f:01025**
De Coster, Colette (*with* Habets, Patrick) Upper and lower solutions in the theory of ODE boundary value problems: classical and recent results. **98e:34034**
Habets, Patrick *see* **De Coster, Colette, 98e:34034**
McMurran, Shawnee L. (*with* Tattersall, James J.) Cartwright and Littlewood on van der Pol's equation. (English summary) **98h:01020**
Sabina, José C. Poincaré and the qualitative theory of differential equations. I, II. (Spanish. English and Spanish summaries) **98j:01027**
Sleeman, Brian D. Felix M. Arscott (1922–1996).
Tattersall, James J. *see* **McMurran, Shawnee L., 98h:01020**

34–04 Explicit machine computation and programs (not the theory of computation or programming)

(Abramov, S. A.) *see* **Barkatou, Moulay Abdelfattah, 98h:34001**
Banshchikov, A. V. (*with* Burlakova, L. A.) On algorithms for symbolic computations in the investigation of stability. (Russian. Russian summary)
Barkatou, Moulay Abdelfattah (*with* Richard-Jung, Françoise) Formal solutions of linear differential and difference equations. (Russian. Russian summary) **98h:34001**
Baumann, Gerd Symmetry analysis of differential equations with Mathematica. (English summary) **98g:34003**
Burlakova, L. A. *see* **Banshchikov, A. V.**
Cheb-Terrab, E. S. (*with* Duarte, L. G. S.; da Mota, L. A. C. P.) Computer algebra solving of first order ODEs using symmetry methods. (English summary) **98a:34002**
Duarte, L. G. S. *see* **Cheb-Terrab, E. S.; et al., 98a:34002**
Glinos, Nikolaos Designing an algorithm for the series solution of nth order linear ODE's with polynomial coefficients. (English summary) (*see* **98g:00025**)
Krtolica, Predrag V. (*with* Stanković, Miomir S.) QADE—program for qualitative analysis of differential equations. (English summary) (*see* **98b:00031**)
da Mota, L. A. C. P. *see* **Cheb-Terrab, E. S.; et al., 98a:34002**
(Paramonova, O. S.) *see* **Wright, F. J., 98g:34004**
Pflügel, E. On the latest version of DESIR-II. (English summary) (*see* **98e:00016**)
Pruess, Steven Accurate Sturm-Liouville eigenfunction computation in mathematical software. (English summary) **98e:34001**
Richard-Jung, Françoise *see* **Barkatou, Moulay Abdelfattah, 98h:34001**
(Ryabenko, A. A.) *see* **Wright, F. J., 98g:34004**
Sainz de los Terreros, Luis Solving linear differential systems with singular points. (English summary) (*see* **98g:00025**)
Shevchenko, Ivan I. Numeric deduction in symbolic computation. Application to normalizing transformations. (English summary) **98f:34001**
Stanković, Miomir S. *see* **Krtolica, Predrag V., (98b:00031)**
Wolkowisky, Jay H. Shooting the buckled plate. (English summary) (*see* **98g:00025**)
Wright, F. J. An improved solver of ordinary differential equations for the REDUCE system. (Russian. Russian summary) **98g:34004**

Items with secondary classifications in 34–04

Abramov, S. A. (*with* Tsarev, S. P.) Peripheral factorization of linear ordinary operators. (Russian. Russian summary) **98h:34012**
Barkatou, Moulay Abdelfattah An algorithm to compute the exponential part of a formal fundamental matrix solution of a linear differential system. (English summary) **98j:34007**
Blaga, Alin Perturbation methods with Lie series. (Romanian summary) **98m:70001**
Brown, B. Malcolm (*with* Eastham, M. S. P.; McCormack, D. K. R.) A new algorithm for computing the asymptotic solutions of a class of linear differential systems. (English summary) **98h:34023**
Carrière, Alain Paul (*with* Oudin, Louis-Rémi) Applications du calcul formel à la balistique. (English and French summaries) [Applications of computer algebra to ballistics] **98j:70001**
Cheng, Hon-Wing (*with* Yau, Stephen S.-T.) More explicit formulas for the matrix exponential. (English summary) **98e:15001**
Chouikha, Raouf Comparison of monotonicity conditions for periodic functions. (*see* **98g:00025**)
Christopher, C. J. *see* **Pearson, Jane Margaret; et al., 98c:34050**
Clarkson, Peter A. *see* **Mansfield, Elizabeth L., 98c:35001**
Eastham, M. S. P. *see* **Brown, B. Malcolm; et al., 98h:34023**
Fulton, Charles T. On generating theorems and conjectures in spectral theory with computer assistance. (English summary) **98m:34049**
Genesio, R. *see* **Torrini, G.; et al., 98m:34061**
Head, A. K. *see* **Sherring, J.; et al., (98b:35006)**
Hsieh, Po-Fang (*with* Kohno, Mitsuhiko; Sibuya, Yasutaka) Construction of a fundamental matrix solution at a singular point of the first kind by means of the SN decomposition of matrices. (English summary) **98c:65037**
Kohno, Mitsuhiko *see* **Hsieh, Po-Fang; et al., 98c:65037**
Kuipers, Benjamin J. *see* **Shults, Benjamin, 98k:68114**
Liang, Zhao Jun *see* **Xiong, Zheng Da**
Lloyd, N. G. (*with* Pearson, Jane Margaret; Romanovskiĭ, V. G.) Computing integrability conditions for a cubic differential system. (English summary) **98e:34055**
— (*with* Pearson, Jane Margaret) Five limit cycles for a simple cubic system. (English summary) **98b:34043**
— *see also* **Pearson, Jane Margaret; et al., 98c:34050**
Ma, Shilong (*with* Ning, Shucheng) Deriving some new conditions on the existence of eight limit cycles for a cubic system. (English summary) **98c:34048**
MacCallum, Malcolm A. H. *see* **Man, Yiu-Kwong, 98g:12009**
Maksimov, V. P. (*with* Rumyantsev, A. N.) Constructive methods in the theory of functional-differential equations and their computer aided implementation. (English summary) **98j:34128**
Man, Yiu-Kwong (*with* MacCallum, Malcolm A. H.) A rational approach to the Prelle-Singer algorithm. (English summary) **98g:12009**
Mansfield, Elizabeth L. (*with* Clarkson, Peter A.) Applications of the differential algebra package `diffgrob2` to classical symmetries of differential equations. (English summary) **98c:35001**
McCormack, D. K. R. *see* **Brown, B. Malcolm; et al., 98h:34023**
Mischaikow, Konstantin (*with* Mrozek, Marian) Chaos in the Lorenz equations: a computer assisted proof. II. Details. (English summary) **98m:58095**
Mrozek, Marian *see* **Mischaikow, Konstantin, 98m:58095**
Naegele, F. (*with* Thomann, J.) Algorithmic approach of the multisummation of formal power series solutions of linear ODE applied to the Stokes phenomena. (English summary) **98m:34014**
Ning, Shucheng *see* **Ma, Shilong, 98c:34048**
Nucci, M. C. The role of symmetries in solving differential equations. (English summary) **98d:34009**
Oudin, Louis-Rémi *see* **Carrière, Alain Paul, 98j:70001**
Pearson, Jane Margaret (*with* Lloyd, N. G.; Christopher, C. J.) Algorithmic derivation of centre conditions. (English summary) **98c:34050**
— *see also* **Lloyd, N. G., 98b:34043** *and* **98e:34055**
Prince, G. E. *see* **Sherring, J.; et al., (98b:35006)**
Romanovskiĭ, V. G. *see* **Lloyd, N. G.; et al., 98e:34055**
Rumyantsev, A. N. *see* **Maksimov, V. P., 98j:34128**
Sarlet, W. Construction of adjoint symmetries for systems of second-order and mixed first- and second-order ordinary differential equations. (English summary) **98c:34011**
Scheen, Christian Implementation of the Painlevé test for ordinary differential systems. (English summary) **98m:34018**
Sherring, J. (*with* Head, A. K.; Prince, G. E.) Dimsym and LIE: symmetry determination packages. (English summary) (*see* **98b:35006**)

Shults, Benjamin (*with* Kuipers, Benjamin J.) Proving properties of continuous systems: qualitative simulation and temporal logic. (English summary) **98k:68114**
Sibuya, Yasutaka *see* **Hsieh, Po-Fang; et al., 98c:65037**
Tesi, Alberto *see* **Torrini, G.; et al., 98m:34061**
Thomann, J. *see* **Naegele, F., 98m:34014**
Torrini, G. (*with* Genesio, R.; Tesi, Alberto) On the computation of characteristic multipliers for predicting limit cycle bifurcations. (English summary) **98m:34061**
Tsarev, S. P. *see* **Abramov, S. A., 98h:34012**
Xiong, Zheng Da (*with* Liang, Zhao Jun) Criteria for centers and foci of the state equations of control systems. (Chinese. English summary)
Yau, Stephen S.-T. *see* **Cheng, Hon-Wing, 98e:15001**
Ye, Yanqian Limit cycles and bifurcation curves for the quadratic differential system $(III)_{m\ 0}$ having three anti-saddles. II. (English summary) **98f:34040**
Zacharias, K. A special system of reaction equations. (English and German summaries)

34–06 Proceedings, conferences, collections, etc.

(Agarwal, Ravi P.) *see* **Positive solutions of nonlinear problems, 98k:34001**
(Hinton, D. B.) *see* **Spectral theory and computational methods of Sturm-Liouville problems, 98b:34003**
(Martynyuk, A. A.) *see* **Advances in nonlinear dynamics, 98e:34002**
(Schaefer, Philip W.) *see* **Spectral theory and computational methods of Sturm-Liouville problems, 98b:34003**
(Sivasundaram, Seenith) *see* **Advances in nonlinear dynamics, 98e:34002**
(Zanolin, Fabio) *see* **Non-linear analysis and boundary value problems for ordinary differential equations, 98b:34002**

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Advances in nonlinear dynamics ★ Advances in nonlinear dynamics. **98e:34002**
Conference:
Sturm-Liouville Problems ★ Spectral theory and computational methods of Sturm-Liouville problems. **98b:34003**
Knoxville, TN ★ Spectral theory and computational methods of Sturm-Liouville problems. **98b:34003**
Lectures:
Barrett, John H. ★ Spectral theory and computational methods of Sturm-Liouville problems. **98b:34003**
Non-linear analysis and boundary value problems for ordinary differential equations ★ Non-linear analysis and boundary value problems for ordinary differential equations. **98b:34002**
Positive solutions of nonlinear problems ★ Positive solutions of nonlinear problems. **98k:34001**
School:
Non-linear Analysis and Boundary Value Problems for Ordinary Differential Equations ★ Non-linear analysis and boundary value problems for ordinary differential equations. **98b:34002**
Special Issue:
Positive solutions of nonlinear problems ★ Positive solutions of nonlinear problems. **98k:34001**
Spectral theory and computational methods of Sturm-Liouville problems ★ Spectral theory and computational methods of Sturm-Liouville problems. **98b:34003**

Items with secondary classifications in 34–06

(Antoniou, Ioannis E.) *see* **Computational tools of complex systems, 98e:58002**
(Aulbach, Bernd) *see* **Six lectures on dynamical systems, 98a:58003**
(Bainov, Drumi D.) *see* **Proceedings: Colloquium on Differential Equations, 98a:00007; 98b:00027; 98c:00012** *and* **98c:00013**
(Barnett, William A.) *see* **Nonlinear dynamics and economics, 98m:90004**
(Colonius, F.) *see* **Six lectures on dynamical systems, 98a:58003**
(Covachev, V. Chr.) *see* **Proceedings: Colloquium on Differential Equations, 98a:00007; 98c:00012** *and* **98c:00013**
(Farkas, M.) *see* **Differential equations and its applications, 98e:00018**
(Feldstein, Alan) *see* **Volterra centennial, 98b:65008**
(van Groesen, E.) *see* **Differential equations, 98k:00012**
(Jackiewicz, Z.) *see* **Volterra centennial, 98b:65008**
(Jarvis, R. J.) *see* **Ordinary and partial differential equations, 98k:00018**
(Kirman, Alan P.) *see* **Nonlinear dynamics and economics, 98m:90004**
(Kuperin, Yu. A.) *see* **Computational tools of complex systems, 98e:58002**
(Masuda, Kyûya) *see* **Finite- and infinite-dimensional dynamics, 98d:00017**
(Mimura, Masayasu) *see* **Finite- and infinite-dimensional dynamics, 98d:00017**
(Nijmeijer, Henk) *see* **Control of chaos and synchronization, 98e:93002**
(Prigogine, Ilya) *see* **Computational tools of complex systems, 98e:58002**
(Salmon, Mark) *see* **Nonlinear dynamics and economics, 98m:90004**
(Sebestyén, Zoltán) *see* **Differential equations and its applications, 98e:00018**
(Smith, Paul Denis) *see* **Ordinary and partial differential equations, 98k:00018**
(Soewono, E.) *see* **Differential equations, 98k:00012**
(Strongin, R. G.) *see* **Mathematical modeling and optimal control, 98b:49003**
(Vekua, I.) *see* **Differential equations and mathematical physics, 98f:00018**
(Volterra, Vito) *see* **Volterra centennial, 98b:65008**

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Anniversary:
Birth of Vekua, Il'ya Nestorovich ★ Differential equations and mathematical physics. **98f:00018**
Publication of "Sulla inversione degli integrali definiti, Nota I–IV" by Vito Volterra ★ Volterra centennial. **98b:65008**
Augsburg ★ Six lectures on dynamical systems. **98a:58003**
Bandung ★ Differential equations. **98k:00012**
Budapest ★ Differential equations and its applications. **98e:00018**
Colloquia Mathematica Societatis János Bolyai ★ Differential equations and its applications. **98e:00018**
Colloquium:
Differential Equations ★ Proceedings of the Third International Colloquium on Differential Equations. **98a:00007**
— ★ Proceedings of the Fourth International Colloquium on Differential Equations. **98c:00012**
— ★ Proceedings of the Fifth International Colloquium on Differential Equations. **98c:00013**
— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
Differential Equations and Applications ★ Differential equations and its applications. **98e:00018**
Computational tools of complex systems ★ Computational tools of complex systems. I. **98e:58002**
Conference:
Differential Equations ★ Differential equations. **98k:00012**
Finite- and Infinite-Dimensional Dynamical Systems ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Nonlinear Dynamics and Economics ★ Nonlinear dynamics and economics. **98m:90004**
Numerical Solution of Volterra and Delay Equations ★ Volterra centennial. **98b:65008**
Ordinary and Partial Differential Equations ★ Ordinary and partial differential equations. Vol. V. **98k:00018**
Control of chaos and synchronization ★ Control of chaos and synchronization. **98e:93002**
Current problems in control theory and their applications (singular solutions and perturbations in control systems) ★ Современные задачи в теории управления и их приложения (сингулярные решения и возмущения в системах управления). (Russian) [Current problems in control theory and their applications (singular solutions and perturbations in control systems)] **98k:93003**
Differential equations ★ Differential equations. **98k:00012**
Differential equations and its applications ★ Differential equations and its applications. **98e:00018**
Differential equations and mathematical physics ★ Differential equations and mathematical physics. **98f:00018**
Dundee ★ Ordinary and partial differential equations. Vol. V. **98k:00018**
Finite- and infinite-dimensional dynamics ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Florence ★ Nonlinear dynamics and economics. **98m:90004**
Kyoto ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Lleida ★ Proceedings of the Symposium on Planar Vector Fields. **98a:58002**
Mathematical modeling and optimal control ★ Математическое моделирование и оптимальное управление. (Russian) [Mathematical modeling and optimal control] **98b:49003**
Meeting:
American Statistical Association ★ Nonlinear dynamics and economics. **98m:90004**
Nonlinear dynamics and economics ★ Nonlinear dynamics and economics. **98m:90004**
Ordinary and partial differential equations ★ Ordinary and partial differential equations. Vol. V. **98k:00018**
Plovdiv ★ Proceedings of the Third International Colloquium on Differential Equations. **98a:00007**
— ★ Proceedings of the Fourth International Colloquium on Differential Equations. **98c:00012**
— ★ Proceedings of the Fifth International Colloquium on Differential Equations. **98c:00013**
— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
Proceedings:
Colloquium on Differential Equations ★ Proceedings of the Third International Colloquium on Differential Equations. **98a:00007**
— ★ Proceedings of the Fourth International Colloquium on Differential Equations. **98c:00012**
— ★ Proceedings of the Fifth International Colloquium on Differential Equations. **98c:00013**
— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
Symposium on Planar Vector Fields ★ Proceedings of the Symposium on Planar Vector Fields. **98a:58002**
San Francisco, CA ★ Nonlinear dynamics and economics. **98m:90004**
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Control of chaos and synchronization ★ Control of chaos and synchronization. **98e:93002**
Structure of functional equations and mathematical methods ★ Kansû hôteishiki no kôzô to hôhô. (Japanese) [Structure of functional equations and mathematical methods] **98h:00040**
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34Axx General theory

34A05 Explicit solutions and reductions

Corduneanu, Adrian Some remarks on the Laplace equation $xy''(ax+b)y'+(\lambda x+\mu)y=0$. (Romanian summary)
Cvejić, Stana D. On the equivalent angle and Euler formulas in second-order trigonometry. (English summary) (*see* **98b:00031**)
Dimitrovski, Dragan (*with* Mijatović, Mijat) A series-iteration method in the theory of ordinary differential equations. (English summary) (*see* **98d:00020**)
Enikeeva, L. G. *see* **Lokshin, A. A.; et al.**
Feng, Lu Xiang (*with* Li, Geng Chao) The solutions of a class of first-order linear differential equations. (Chinese. English and Chinese summaries)
Govinder, K. S. (*with* Leach, P. G. L.) A group-theoretic approach to a class of second-order ordinary differential equations not possessing Lie point symmetries. (English summary) **98h:34002**
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Li, Geng Chao *see* **Feng, Lu Xiang**
Lokshin, A. A. (*with* Sagomonyan, E. A.; Enikeeva, L. G.) On the factorization of an equation of a nonlinear oscillator. (Russian)
Mejlbro, Leif Solution of linear ordinary differential equations by means of the method of variation of arbitrary constants. (English summary)
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Starc, Zdravko F. A transformation of the independent variable for the second order linear ordinary differential equation. (English and Serbo-Croatian summaries)
Umemura, Hiroshi (*with* Watanabe, Humihiko) Solutions of the second and fourth Painlevé equations. I. (English summary) **98m:34002**
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Yan, En Rang An integral method for nonhomogeneous linear equations with constant coefficients. (Chinese. English and Chinese summaries)
Zacharias, K. A special system of reaction equations. (English and German summaries)

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Šapkarev, Ilija A. Non-homogeneous third-order linear differential equations invariant with respect to tangential function transformation. (English summary) **98c:34010**
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34A09 Implicit equations

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Gu, Jin Sheng (*with* Hu, Xian Cheng) The properties of a class of special systems of differential-algebraic equations and their applications. (Chinese. English summary) **98g:34006**
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Wen, Xiang Cai (*with* Qiu, Shui Sheng; Guo, Qingpu) Lyapunov-like exponential stability and unstability of differential-algebraic equation. (English summary) **98d:34002**
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Ascher, Uri M. (*with* Lin, Ping¹) Sequential regularization methods for higher index DAEs with constraint singularities: the linear index-2 case. (English summary) **98c:65133**
— (*with* Lin, Ping¹) Sequential regularization methods for nonlinear higher index DAEs. (English summary) (*see* **98b:65005**)
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34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions

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Dhage, B. C. General existence principles for first order discontinuous ordinary differential equations. (English summary) **98e:34006**
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El-Sayed, Ahmed M. A. (*with* Gaafar, F. M.) Sturm-Liouville equation of fractional order. (English summary) **98e:34007**
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Tang, Chun-Lei Solvability of the forced Duffing equation at resonance. (English summary) **98j:34079**
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Tarallo, Massimo Almost periodic problems and a property by Eric Séré. (English and Italian summaries) **98h:35083**
— *see also* **Serra, Enrico; et al.**, **98b:34060**
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Thylwe, Karl-Erik (*with* Dankowicz, Harry) Nonlinear phase-integral approximations of stationary waves in nonhomogeneous systems. (English summary) **98b:34027**
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Tsamatos, P. Ch. (*with* Ntouyas, S. K.) Boundary value problems for differential equations with deviating arguments. **98a:34072**
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Non-linear Analysis and Boundary Value Problems for Ordinary Differential Equations ★ Non-linear analysis and boundary value problems for ordinary differential equations. **98b:34002**

34B20 Weyl theory and its generalizations

An, Jian Ye The types of limit points of a class of second-order symmetric ordinary differential operators. (Chinese. English and Chinese summaries) **98k:34036**
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Brown, B. Malcolm (*with* Dias, N. G. J.) The HELP type integral inequalities for $2n$th order differential operators. (English summary) **98e:34046**
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Wang, Zhong (*with* Yang, Rui Fang) The resolvent operators of higher-order J-selfadjoint differential operators. (Chinese. English and Chinese summaries) **98j:47102**
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Yurko, V. A. An inverse problem for operators of a triangular structure. (English summary) **98e:47035**
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34B24 Sturm-Liouville theory [see also 34Lxx]

Bailey, Paul On the approximation of eigenvalues of singular Sturm-Liouville problems by those of suitably chosen regular problems. **98d:34045**
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Belinskiĭ, B. P. (*with* Dauer, Jerald P.) On a regular Sturm-Liouville problem on a finite interval with the eigenvalue parameter appearing linearly in the boundary conditions. (English summary) **98e:34047**
Binding, Paul A. (*with* Browne, Patrick J.) Oscillation theory for indefinite Sturm-Liouville problems with eigenparameter-dependent boundary conditions. (English summary) **98j:34037**
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Kosowski, Przemysław A simple proof of the spectral continuity of the Sturm-Liouville problem. (English summary) **98c:34039**
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Nylen, Peter (*with* Uhlig, Frank) Inverse eigenvalue problem: existence of special spring-mass systems. (English summary) **98m:34051**
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Abd-El-Reheem, Zaki F. On some trace formula for the Sturm-Liouville operator. (English summary) **98h:34141**
Algunov, G. A. A criterion for the uniform boundedness of normalized eigenfunctions of the Sturm-Liouville operator with a positive weight function on a finite interval. (Russian) **98h:34139**
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Alekseev, A. A. On an inverse spectral problem for the Sturm-Liouville equation. (Russian. Russian summary) (*see* **98e:00010**)
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Brown, B. Malcolm (*with* Eastham, M. S. P.; McCormack, D. K. R.) Spectral concentration and rapidly decaying potentials. (English summary) **98f:34126**
— (*with* Eastham, M. S. P.; McCormack, D. K. R.) Spectral concentration and perturbed discrete spectra. (English summary) **98h:34145**
Brown, Richard C. (*with* Hinton, D. B.) Norm eigenvalue bounds for some weighted Sturm-Liouville problems. (English summary) **98c:34134**
Browne, Patrick J. (*with* Sleeman, Brian D.) A uniqueness theorem for inverse eigenparameter dependent Sturm-Liouville problems. (English summary) **98i:34022**
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Everitt, W. N. (*with* Shubin, C.; Stolz, Günter; Zettl, Anton) Sturm-Liouville problems with an infinite number of interior singularities. (English summary) **98i:47043**
Freiling, G. (*with* Yurko, V. A.) Inverse problems for differential equations with turning points. (English summary) **98i:34023**
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Karaa, Samir Isoperimetric upper bounds for the eigenvalues of the Sturm-Liouville type. (English and French summaries) **98j:34169**
Korotyaev, E. L. The inverse problem for the Hill operator. I. **98c:34137**
Lažetić, Nebojša L. Estimates for derivatives and integrals of eigenfunctions and associated functions of nonselfadjoint Sturm-Liouville operator with discontinuous coefficients. III. (English summary) **98b:34110**
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McCormack, D. K. R. *see* **Brown, B. Malcolm; et al., 98f:34126** *and* **98h:34145**
Mitrokhin, S. I. On some spectral properties of second-order differential operators with a discontinuous positive weight function. (Russian)

Nikolaev, B. K. *see* **Makarov, I. L.; et al., 98c:65136**
Pikula, Milenko (*with* Lazović, Radovan) The inverse problem for an equation of Sturm-Liouville type with constant delay α, $0 < \alpha < 1$. (English summary) **98h:34027**
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(Schaefer, Philip W.) *see* **Spectral theory and computational methods of Sturm-Liouville problems, 98b:34003**
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Shkarin, S. A. On the Gel'fand-Dikiĭ method for computing the first eigenvalues of the Sturm-Liouville operator. (Russian. Russian summary) **98j:34175**
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Wei, Zhong Li Positive solutions of impulsive sublinear integral equations and their applications. (Chinese. English and Chinese summaries) **98k:45007**
Yang, Xue Feng¹ A solution of the inverse nodal problem. (English summary) **98c:34017**
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Zeragiya, D. P. Variational problems associated with extremal properties of the first eigenvalue of a problem of Sturm-Liouville type. (Russian. Russian summary) **98h:34150**
Zettl, Anton *see* **Everitt, W. N.; et al., 98i:47043**
Zhidkov, P. E. On the eigenvalue problem for the Sturm-Liouville operator with a potential that depends on the spectral parameter. (Russian. Russian summary) **98m:34176**

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Sturm-Liouville Problems ★ Spectral theory and computational methods of Sturm-Liouville problems. **98b:34003**
Knoxville, TN ★ Spectral theory and computational methods of Sturm-Liouville problems. **98b:34003**
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Barrett, John H. ★ Spectral theory and computational methods of Sturm-Liouville problems. **98b:34003**
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34B27 Green functions

Litvin, O. N. (*with* Trofimenko, O. P.) An analytic expression for the Green function of the problem $\sum_{s=0}^{N}(a_s y^{(2s)}(t) + b_s y^{(2s)}(1-t)) = f(t)$, $y^{(s)}(0) = y_{s0}$, $y^{(s)}(1) = y_{s1}$, $s = 0, \cdots, N-1$. (Ukrainian. English summary) **98g:34046**
Pytel-Kudela, Marzenna Green function and the boundary value problem for certain class of ordinary differential equations of the fourth order. (Polish summary) **98b:34040**
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Boichuk, A. A. (*with* Chuĭko, S. M.) Generalized Green operator for a linear quasiperiodic problem. (Russian. Russian summary) **98c:34075**
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Goebel, Manfred Linear second order ordinary differential equations with nonsmooth coefficients. (English summary) **98e:34030**
Karandzhulov, Lyudmil I. Generalized Green's matrix for linear pulse boundary-value problems. (English summary) **98a:34014**
Korotyaev, E. L. The propagation of the waves in periodic media at large time. (English summary) **98h:34149**
Likhacheva, N. N. The de la Vallée-Poussin theorem for a classs of functional-differential equations. (Russian) **98m:34131**
Linttner, Malgorzata Green potentials and boundary value problem for iterated Hermite equation. (Polish summary) **98d:34030**
Liu, Yong Qing *see* **Wang, Wei³, 98f:34023**
Maksimov, V. P. On the parametrization of the solution set of a functional-differential equation. (English summary) **98e:34146**
Peterson, Allan C. Green's matrices and disconjugacy of a vector difference equation. **98k:39003**
Pruess, Steven Accurate Sturm-Liouville eigenfunction computation in mathematical software. (English summary) **98e:34001**
Wang, Wei³ (*with* Liu, Yong Qing) Boundary value problems of singular measure differential equations with impulsive effect. (English summary) **98f:34023**
Zhuravlev, V. F. Linear boundary value problems for Noether operator equations with impulse action. (Russian. Russian summary) **98h:34107**

34B30 Special equations (Mathieu, Hill, Bessel, etc.)

Khriptun, M. D. Some improper integrals that contain generalized Bessel functions satisfying a third-order ordinary differential equation. (Russian. Russian summary) (*see* **98e:00010**)

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Alabau, Fatiha Uniqueness results for the steady-state electrodiffusion equations in the case of monotonic potentials and multiple junctions. **98f:35150**
(Arscott, Félix M.) *see* **Heun's differential equations, 98a:33005**
von Bachhaus, A. L. W. The differential equations of the classical orthogonal polynomials derived from recurrence formulae. (*see* **98e:00018**)
Carlson, Robert A Borg-Levinson theorem for Bessel operators. (English summary) **98b:34029**
Dubrovskiĭ, V. V. (*with* Sedov, A. I.) Asymptotics of the eigenvalues of a singular differential operator of Jacobi type. (Russian) **98k:34137**
— Asymptotics of the eigenvalues of a singular differential operator of Gegenbauer type. (Russian. English and Russian summaries) **98j:34170**
(Duval, Anne) *see* **Heun's differential equations, 98a:33005**
Gorenflo, Norbert (*with* Werner, Matthias) Solution of a finite convolution equation with a Hankel kernel by matrix factorization. (English summary) **98c:45004**
(Heun, Karl) *see* **Heun's differential equations, 98a:33005**
Jager, Lisette Fonctions de Mathieu et polynômes de Klein-Gordon. (English and French summaries) [Mathieu functions and Klein-Gordon polynomials] **98g:34135**
Korotyaev, E. L. Uniform estimates for the Hill operator. (Russian) **98k:34139**
(Maroni, P.) *see* **Heun's differential equations, 98a:33005**
Mrziglod, Thomas On the solution structure of nonlinear Hill's equation. I. Global results. (English summary) **98m:34041**
(Ronveaux, André) *see* **Heun's differential equations, 98a:33005**
(Schmidt, Dieter) *see* **Heun's differential equations, 98a:33005**
Sedov, A. I. *see* **Dubrovskiĭ, V. V., 98k:34137**
Shibata, Tetsutaro Two-parameter eigenvalue problems in nonlinear second order differential equations. (English summary) **98i:34040**
Skórnik, Krystyna (*with* Wloka, Joseph) Some remarks concerning the Bessel equation. (English summary) **98f:33009**
Slavyanov, S. Yu. (*with* Veshev, N. A.) Structure of avoided crossings for eigenvalues related to equations of Heun's class. (English summary) **98e:34099**
— *see also* **Heun's differential equations, 98a:33005**
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Biography:
Heun, Karl ★ Heun's differential equations. **98a:33005**
Heun's differential equations ★ Heun's differential equations. **98a:33005**

34B99 None of the above, but in this section

Carlson, Robert Hill's equation for a homogeneous tree. (English summary) **98j:34039**

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Constantin, Adrian On the spectral problem for the periodic Camassa-Holm equation. **98c:35140**
Lin, Song-Sun Stability of gaseous stars in spherically symmetric motions. (English summary) **98b:85001**

34Cxx Qualitative theory [see also 58Fxx]

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(Antoniou, Ioannis E.) *see* **Computational tools of complex systems, 98e:58002**
Beltrami, Edward ★ Mathematics for dynamic modeling. **98g:00012**
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Zhu, Hong Liang (*with* Zhang, Jing Ru) Global stability of nonlinear differential equations of higher order. (Chinese. English and Chinese summaries) **98b:34072**

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34D35 Stability of manifolds of solutions

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Leela, S. (*with* Shahzad, Naseer) On stability of moving conditionally invariant sets. **98a:34049**
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34D40 Ultimate boundedness

Martynyuk, A. A. On the boundedness with respect to two measures of solutions of replicator equations. (Russian) **98j:34103**

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Garay, Barnabas M. (*with* Hofbauer, Josef) Chain recurrence and discretisation. (English summary) **98a:34054**
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Alexander, N. A. Evaluating basins of attraction in non-linear dynamical systems using an improved recursive boundary enhancement (RBE). (English summary) **98k:65027**
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34E99 None of the above, but in this section

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Ait Dads, E. (*with* Ezzinbi, K.; Arino, O.) Pseudo almost periodic solutions for some differential equations in a Banach space. **98d:34089**
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Chow, Shui-nee (*with* Leiva, Hugo) Unbounded perturbation of the exponential dichotomy for evolution equations. (English summary) **98d:34090**
Èĭdel'man, Yu. S. Some inverse problems for parabolic and elliptic differential-operator equations. (English summary) **98d:34091**
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Fayazov, K. S. Boundary value problems for a second-order differential equation with selfadjoint operator coefficients. (Russian. Russian summary) **98a:34058**
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Glushak, A. V. Stabilization of the solution of the Dirichlet problem for an elliptic equation in a Banach space. (Russian. Russian summary) **98k:34095**
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Herzog, Gerd On linear time-dependent row-finite systems of differential equations. (English summary) **98f:34087**
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Jużyniec, Mariusz Weak solutions of evolution equations with parameter. (English summary) **98e:34101**

Kalantarov, V. K. (*with* Tiryaki, Aydın) On the stability results for third order differential-operator equations. (English and Turkish summaries) **98h:34104**

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Kostin, V. A. On the uniform correct solvability of boundary value problems for abstract equations with a Keldysh-Feller operator. (Russian. Russian summary) **98g:34100**

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Leiva, Hugo General perturbation of the exponential dichotomy for evolution equations. (English summary) **98j:34111**

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Li, Yang Rong Integral divisors of unbounded normal operators and abstract Cauchy problems. (Chinese)

Li, Yong Xiang Exponential stability of abstract strongly damped wave equations. (Chinese. Chinese summary) **98h:34105**

Li, Yun (*with* Zhu, Shang Wei) Some theorems on stability of continuous-time systems in Banach spaces. (Chinese. English and Chinese summaries)

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— (*with* Neubrander, Frank) Signaux non-détectables en dimension N dans des systèmes gouvernés par des équations de type parabolique. (English and French summaries) [Nondetectable signals in dimension N in systems governed by equations of parabolic type] **98j:34112**

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Orlov, V. P. Weakly degenerate differential equations with an unbounded operator coefficient. (Russian) **98j:34114**

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— ★ Formulas in inverse and ill-posed problems. **98h:00014**

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Bakaev, N. Yu. On the stability bounds of generalized solutions of abstract discrete boundary value problems. (English summary) **98g:65080**

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Kim, Jong Kyu (*with* Jin, B. J.) On the existence and uniqueness of solutions for nonlinear differential equations in probabilistic normed spaces. (English summary) **98e:34110**
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34L10 Eigenfunction expansions, completeness of eigenfunctions

Abasheeva, N. L. (*with* Pyatkov, S. G.) Counterexamples in indefinite Sturm-Liouville problems. (English summary) **98m:34164**

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Denisov, S. A. An estimate, uniform on the whole line **R**, for the rate of convergence of a spectral expansion corresponding to the Schrödinger operator with a potential from the Kato class. (Russian. Russian summary) **98k:34134**

— Equiconvergence of a spectral expansion, corresponding to a Schrödinger operator with a potential in the class $L_1(\mathbf{R})$, with the Fourier integral. (Russian) **98g:34132**

Gorelov, V. A. On the change of a finite number of elements in a system of root functions of a differential operator without loss of the basis property. (Russian. Russian summary) **98i:34125**

Il'in, Vladimir Aleksandrovich[1] Equiconvergence, uniform on the whole line **R**, with the Fourier integral of the spectral expansion corresponding to a selfadjoint extension of the Schrödinger operator with a uniformly locally summable potential. (Russian. Russian summary) **98a:34095**

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— How to express basis conditions and conditions for the equiconvergence with trigonometric series of expansions related to non-self-adjoint differential operators. (English summary) (*see* **98g:00016**)

— (*with* Kurkina, A. V.) Spectral expansions that correspond to the Liouville operator generated by the Schrödinger operator with a matrix potential satisfying the Kato condition. (Russian. Russian summary) **98k:34135**

— *see also* **Antoniou, Ioannis E., 98a:34094**

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— A counterexample to completeness properties for indefinite Sturm-Liouville problems. (English summary) **98k:34037**

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34L15 Estimation of eigenvalues, upper and lower bounds

Algunov, G. A. A criterion for the uniform boundedness of normalized eigenfunctions of the Sturm-Liouville operator with a positive weight function on a finite interval. (Russian) **98h:34139**

— (*with* Gekhtman, Moiseĭ Meerovich) On the maximum possible rate of growth of a system of eigenfunctions of the Sturm-Liouville operator with a continuous weight function on a finite segment. (Russian) **98h:34140**

Brown, Richard C. (*with* Hinton, D. B.) Norm eigenvalue bounds for some weighted Sturm-Liouville problems. (English summary) **98c:34134**

Gekhtman, Moiseĭ Meerovich *see* **Algunov, G. A., 98h:34140**

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Korotyaev, E. L. The estimates of periodic potentials in terms of effective masses. (English summary) **98f:34127**

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34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions

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Geist, Bruce (*with* McLaughlin, Joyce R.) Eigenvalue formulas for the uniform Timoshenko beam: the free-free problem. **98m:34166**

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Sakhnovich, Lev Aronovich On the properties of discrete and continuous spectra of the radial Dirac equation. (Russian. English and Russian summaries) **98b:34113**
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Slavyanov, S. Yu. (*with* Veshev, N. A.) Structure of avoided crossings for eigenvalues related to equations of Heun's class. (English summary) **98e:34099**
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34L25 Scattering theory

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— (*with* Shepel'skiĭ, D. G.) Inverse scattering problem for a stratified bi-isotropic medium at oblique incidence. (English summary) **98m:78023**
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34L30 Nonlinear ordinary differential operators

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Karasev, Mikhail (*with* Pereskokov, A. V.) Turning points, phase shifts, and quantization rules in ordinary differential equations with a local rapidly decreasing nonlinearity. (Russian. Russian summary) **98e:34098**
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— Spectral asymptotics for nonlinear nonautonomous elliptic eigenvalue problems in a ball. (English summary) **98d:34039**
— Variational method in nonlinear two-parameter eigenvalue problems. (Italian summary) **98h:34044**
— Nonlinear multiparameter eigenvalue problems on general level sets. **98g:34041**
— Two-parameter eigenvalue problems in nonlinear second order differential equations. (English summary) **98i:34040**
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34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)

Antoniou, Ioannis E. (*with* Il'in, Vladimir Aleksandrovich[1]) The uniform over the whole line **R** estimates of spectral expansions related to the selfadjoint extensions of the Hill operator and of the Schrödinger operator with a bounded and measurable potential. (English summary) (*see* **98g:00016**)
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Boutet de Monvel-Berthier, Anne-Marie (*with* Marchenko, Vladimir Aleksandrovich) Asymptotic formulas for spectral and Weyl functions of Sturm-Liouville operators with smooth coefficients. (English summary) **98h:34144**
Brown, B. Malcolm (*with* Eastham, M. S. P.; McCormack, D. K. R.) Spectral concentration and rapidly decaying potentials. (English summary) **98f:34126**
— (*with* Eastham, M. S. P.; McCormack, D. K. R.) Spectral concentration and perturbed discrete spectra. (English summary) **98h:34145**
Cao, Zhi Jiang *see* **Wang, Xiao Xia, 98j:34176**
Dubrovskiĭ, V. V. Asymptotics of the eigenvalues of a singular differential operator of Gegenbauer type. (Russian. English and Russian summaries) **98j:34170**

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Gesztesy, Fritz (*with* Simon, Barry; Teschl, Gerald) Spectral deformations of one-dimensional Schrödinger operators. (English summary) **98m:34171**
— (*with* Holden, Helge) On trace formulas for Schrödinger-type operators. (English summary) **98m:34172**
Griniv, R. O. On the spectrum of an operator pencil that arises in the problem of oscillations of a semi-infinite rod with internal friction. (Russian. Russian summary) **98h:34147**
Gubreev, G. M. (*with* Pivovarchik, V. N.) Spectral analysis of the Regge problem with parameters. (Russian) **98g:34134**
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Jager, Lisette Fonctions de Mathieu et polynômes de Klein-Gordon. (English and French summaries) [Mathieu functions and Klein-Gordon polynomials] **98g:34135**
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Kleespies, Frank Inverse spectral theory for periodic Schrödinger operators. (English summary) **98b:34111**
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Allakhverdiev, B. P. (*with* Canoğlu, Ahmet) Spectral analysis of dissipative Schrödinger operators. (English summary) **98m:47074**
Antoniou, Ioannis E. *see* **Il'in, Vladimir Aleksandrovich**[1], **98c:34131**
Asch, Joachim (*with* Duclos, Pierre[1]; Exner, Pavel) Stark-Wannier Hamiltonians with pure point spectrum. (English summary) **98f:81066**
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— (*with* Kritskov, L. V.) An estimate, uniform on the whole line **R**, for the rate of convergence of a spectral expansion corresponding to the Schrödinger operator with a summable potential. (Russian. Russian summary) **98c:81054**

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34L99 None of the above, but in this section

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35–XX Partial differential equations

35–01 Instructional exposition (textbooks, tutorial papers, etc.)

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Bleecker, David D. (*with* Csordas, George) ★ Basic partial differential equations. **98m:35001**
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— ★ Partial differential equations. I. (English summary) **98b:35002b**
— ★ Partial differential equations. II. (English summary) **98b:35003**
— ★ Partial differential equations. III. (English summary) **98k:35001**
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Hislop, P. D. (*with* Sigal, Israel M.) ★ Introduction to spectral theory. (English summary) **98h:47003**
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Introduction to nonlinear physics ★ Introduction to nonlinear physics. **98b:00013**

35–02 Research exposition (monographs, survey articles)

Hörmander, Lars ★ The analysis of linear partial differential operators. IV. **98f:35002**
Kosheley, Aleksandr Ivanovich ★ Regularity problem for quasilinear elliptic and parabolic systems. **98j:35004**
Lieberman, Gary M. ★ Second order parabolic differential equations. **98k:35003**

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Church, P. T. (*with* Timourian, J. G.) Global structure for nonlinear operators in differential and integral equations. I. Folds. **98e:58039**
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35–03 Historical (must also be assigned at least one classification number from Section 01)

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35–04 Explicit machine computation and programs (not the theory of computation or programming)

Brand, A. *see* **Wolf, Thomas Otto, (98b:35006)**
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Steeb, W.-H. (*with* Tan, Kiat Shi; Stoop, R.) Exact solutions of $(2 + 1)$-dimensional soliton equations applying SymbolicC++. (English summary)
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Items with secondary classifications in 35–04

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Baikov, V. A. *see* **Anderson, Robert Leonard; et al., 98b:58176**
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Gerdt, Vladimir Gröbner bases and involutive methods for algebraic and differential equations. (English summary) **98d:35010**
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Handbook:
Lie group analysis of differential equations *see* **Anderson, Robert Leonard; et al., 98b:58176**

35–06 Proceedings, conferences, collections, etc.

(Agranovich, M. S.) *see* **Partial differential equations, 98e:35002**
(Bae, Hyeong-Ohk) *see* **Proceedings: Partial Differential Equations Conference, 98h:35001**
Bardi, Martino (*with* Crandall, Michael G.; Evans, Lawrence C.; Soner, Halil Mete; Souganidis, Panagiotis E.) ★ Viscosity solutions and applications. **98b:35005**
Bolliat, G. (*with* Dafermos, C. M.; Lax, Peter D.; Liu, Tai-Ping) ★ Recent mathematical methods in nonlinear wave propagation. **98g:35002**
(Capuzzo Dolcetta, I.) *see* **Bardi, Martino; et al., 98b:35005**
(Caristi, Gabriella) *see* **Reaction diffusion systems, 98d:35004**
(Choe, Hi Jun) *see* **Proceedings: Partial Differential Equations Conference, 98h:35001**
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(Donato, Patrizia) *see* **Homogenization and applications to material sciences, 98d:35002**
(Egorov, Yurii Vladimirovich) *see* **Partial differential equations, 98e:35002**
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(Gerdt, Vladimir) *see* **Algorithms and software for symbolic analysis of nonlinear systems, 98b:35006**
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(Ruggeri, Tommaso) *see* **Bolliat, G.; et al., 98g:35002**
(Seco, Luis A.) *see* **Partial differential equations and their applications, 98e:35003**
(Shubin, Mikhail) *see* **Partial differential equations, 98e:35002**
(Sommerfeld, Arnold) *see* **Modern mathematical methods in diffraction theory and its applications in engineering, 98e:35001**
Soner, Halil Mete *see* **Bardi, Martino; et al., 98b:35005**
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American Mathematical Society Translations, Series 2 ★ Nonlinear waves and weak turbulence. **98k:35004**
Anniversary:
Publication of "Mathematische Theorie der Diffraktion" by Arnold Sommerfeld ★ Modern mathematical methods in diffraction theory and its applications in engineering. **98e:35001**
Beijing ★ Nonlinear evolutionary partial differential equations. **98d:35003**
Birthday:
Lax, Peter D. ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Nirenberg, Louis ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Conference:
Differential Equations ★ Atti del Convegno "Equazioni Differenziali". [Proceedings of the Conference "Differential Equations"] **98c:35002**
Homogenization and Applications to Material Sciences ★ Homogenization and applications to material sciences. **98d:35002**
Nonlinear Evolution Equations and their Applications ★ Hisenkei hatten hōteishiki to sono ōyō. [Nonlinear evolution equations and their applications] **98f:35003**
Nonlinear Evolutionary Partial Differential Equations ★ Nonlinear evolutionary partial differential equations. **98d:35003**
Nonlinear Klein-Gordon and Schrödinger Systems: Theory and Applications ★ Nonlinear Klein-Gordon and Schrödinger systems: theory and applications. **98a:35001**
Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **98f:35004**
— ★ Proceedings of Korea-Japan Partial Differential Equations Conference. **98h:35001**
Recent Advances in Partial Differential Equations ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Congress:
Free Boundary Problems, Theory and Applications ★ Free boundary problems, theory and applications. **98d:35001**
Encyclopaedia of Mathematical Sciences ★ Partial differential equations. IX. **98e:35002**
Ferrara ★ Atti del Convegno "Equazioni Differenziali". [Proceedings of the Conference "Differential Equations"] **98c:35002**
Festschrift:
Lax, Peter D. ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Nirenberg, Louis ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Free boundary problems, theory and applications ★ Free boundary problems, theory and applications. **98d:35001**
Freudenstadt ★ Modern mathematical methods in diffraction theory and its applications in engineering. **98e:35001**
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Meeting:
Reaction Diffusion Systems ★ Reaction diffusion systems. **98d:35004**
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Modern mathematical methods in diffraction theory and its applications in engineering ★ Modern mathematical methods in diffraction theory and its applications in engineering. **98e:35001**
Nice ★ Homogenization and applications to material sciences. **98d:35002**
Nonlinear evolution equations and their applications ★ Hisenkei hatten hōteishiki to sono ōyō. [Nonlinear evolution equations and their applications] **98f:35003**
Nonlinear evolutionary partial differential equations ★ Nonlinear evolutionary partial differential equations. **98d:35003**
Nonlinear Klein-Gordon and Schrödinger systems: theory and applications ★ Nonlinear Klein-Gordon and Schrödinger systems: theory and applications. **98a:35001**
Nonlinear waves and weak turbulence ★ Nonlinear waves and weak turbulence. **98k:35004**
Partial differential equations ★ Partial differential equations. IX. **98e:35002**
Partial differential equations and their applications ★ Partial differential equations and their applications. **98e:35003**
Proceedings:
Conference "Differential Equations" ★ Atti del Convegno "Equazioni Differenziali". [Proceedings of the Conference "Differential Equations"] **98c:35002**
Conference on Partial Differential Equations ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **98f:35004**
Proceedings of Symposia in Applied Mathematics ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Partial Differential Equations Conference ★ Proceedings of Korea-Japan Partial Differential Equations Conference. **98h:35001**
Reaction diffusion systems ★ Reaction diffusion systems. **98d:35004**
Recent advances in partial differential equations ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Saint-Jean-de-Monts ★ Journées "Équations aux Dérivées Partielles". [Proceedings of the Conference on Partial Differential Equations] **98f:35004**
Seminar:
Canadian Mathematical Society ★ Partial differential equations and their applications. **98e:35003**
Partial Differential Equations ★ Séminaire sur les Équations aux Dérivées Partielles. 1995–1996. (French) [Seminar on Partial Differential Equations. 1995–1996] **98i:35001**
— ★ Séminaire sur les Équations aux Dérivées Partielles. 1996–1997. (French) [Seminar on Partial Differential Equations. 1996–1997] **98f:35005**
Singularities and oscillations ★ Singularities and oscillations. **98g:35004**
Special Issue:
Algorithms and software for symbolic analysis of nonlinear systems ★ Algorithms and software for symbolic analysis of nonlinear systems. **98b:35006**
Study of partial differential equations by means of functional analysis ★ Kansū kaiseki o mochi ita hembibun hōteishiki no kenkyū. (Japanese) [Study of partial differential equations by means of functional analysis] **98f:35006**
Symposium:
Study of Partial Differential Equations by Means of Functional Analysis ★ Kansū kaiseki o mochi ita hembibun hōteishiki no kenkyū. (Japanese) [Study of partial differential equations by means of functional analysis] **98f:35006**
Taejŏn ★ Proceedings of Korea-Japan Partial Differential Equations Conference. **98h:35001**
Toronto, ON ★ Partial differential equations and their applications. **98e:35003**
Trieste ★ Reaction diffusion systems. **98d:35004**
Venice ★ Recent advances in partial differential equations, Venice 1996. **98g:35003**
Workshop:
Singularities and Oscillations ★ Singularities and oscillations. **98g:35004**
Sommerfeld '96 ★ Modern mathematical methods in diffraction theory and its applications in engineering. **98e:35001**
Zakopane ★ Free boundary problems, theory and applications. **98d:35001**

Items with secondary classifications in 35–06

(Agarwal, Ravi P.) *see* **Positive solutions of nonlinear problems, 98k:34001**
(Agemi, R.) *see* **Nonlinear waves, 98h:00031**
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(Bainov, Drumi D.) *see* **Proceedings: Colloquium on Differential Equations, 98a:00007; 98b:00027; 98c:00012** *and* **98c:00013**
(Baranger, Jacques) *see* **Elasticity, viscoelasticity and optimal control, 98g:73001**
(Blum, Jacques) *see* **Elasticity, viscoelasticity and optimal control, 98g:73001**
(Buttazzo, Giuseppe) *see* **Nonlinear analysis and continuum mechanics, 98h:00030**
(Chavent, Guy) *see* **Inverse problems in wave propagation, 98g:00026**
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(Clément, Philippe) *see* **Dedicated to the memory of Pierre Grisvard**
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(Cox, Steven J.) *see* **Optimization methods in partial differential equations, 98d:00021**
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(Demuth, Michael) *see* **Spectral theory, microlocal analysis, singular manifolds, 98k:00010**
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(Lasiecka, Irena) *see* **Optimization methods in partial differential equations, 98d:00021**
(Lubuma, Jean M.-S.) *see* **Variational problems in applied mathematics, 98g:00032**
(Luhandjula, Monga K.) *see* **Variational problems in applied mathematics, 98g:00032**
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(Sanchez-Palencia, Évariste) *see* **Spectral analysis of complex structures, 98h:73002**
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(Wendland, Wolfgang L.) *see* **Analysis, numerics and applications of differential and integral equations, 98i:00036**
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Items listed otherwise than by author

Algebraic analysis methods in microlocal analysis ★ Chōkyokusho kaiseki ni okeru daisū kaisekiteki hōhō. [Algebraic analysis methods in microlocal analysis] **98h:00024**
Analysis, numerics and applications of differential and integral equations ★ Analysis, numerics and applications of differential and integral equations. **98i:00036**
Anniversary:
Birth of Vekua, Il'ya Nestorovich ★ Differential equations and mathematical physics. **98f:00018**
Bandung ★ Differential equations. **98k:00012**
Birthday:
Serrin, James B., Jr. ★ Nonlinear analysis and continuum mechanics. **98h:00030**
Budapest ★ Differential equations and its applications. **98e:00018**
Cholin ★ Topological and variational methods for nonlinear boundary value problems. **98c:00023**
Colloquia Mathematica Societatis János Bolyai ★ Differential equations and its applications. **98e:00018**
Colloquium:
Differential Equations ★ Proceedings of the Third International Colloquium on Differential Equations. **98a:00007**
— ★ Proceedings of the Fourth International Colloquium on Differential Equations. **98c:00012**
— ★ Proceedings of the Fifth International Colloquium on Differential Equations. **98c:00013**
— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
Differential Equations and Applications ★ Differential equations and its applications. **98e:00018**
Spectral Analysis of Complex Structures ★ Spectral analysis of complex structures. **98h:73002**
Conference:
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Differential Equations ★ Differential equations. **98k:00012**
Elasticity, Viscoelasticity and Optimal Control ★ Élasticité, viscoélasticité et contrôle optimal. [Elasticity, viscoelasticity and optimal control] **98g:73001**
Finite- and Infinite-Dimensional Dynamical Systems ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Integral Methods in Science and Engineering ★ Integral methods in science and engineering. Vol. 1. **98i:00021**
— ★ Integral methods in science and engineering. Vol. 2. **98i:00022**
Optimization Methods in Partial Differential Equations ★ Optimization methods in partial differential equations. **98d:00021**
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Serrin, James B., Jr. ★ Nonlinear analysis and continuum mechanics. **98h:00030**
Shapiro, Victor L. ★ Harmonic analysis and nonlinear differential equations. **98c:00018**
Variational Problems in Applied Mathematics ★ Problèmes variationnels en mathématiques appliquées. (French) [Variational problems in applied mathematics] **98g:00032**
Contemporary Mathematics ★ Harmonic analysis and nonlinear differential equations. **98c:00018**
— ★ Optimization methods in partial differential equations. **98d:00021**
Current problems in control theory and their applications (singular solutions and perturbations in control systems) ★ Современные задачи в теории управления и их приложения (сингулярные решения и возмущения в системах управления). (Russian) [Current problems in control theory and their applications (singular solutions and perturbations in control systems)] **98k:93003**
Dedicated to the memory of Pierre Grisvard ★ {Dedicated to the memory of Pierre Grisvard}.
Differential equations ★ Differential equations. **98k:00012**
Differential equations and its applications ★ Differential equations and its applications. **98e:00018**
Differential equations and mathematical physics ★ Differential equations and mathematical physics. **98f:00018**
Direct and inverse electromagnetic scattering ★ Direct and inverse electromagnetic scattering. **98b:00024**
Dundee ★ Ordinary and partial differential equations. Vol. V. **98k:00018**
Élasticité, viscoélasticité et contrôle optimal ★ Élasticité, viscoélasticité et contrôle optimal. [Elasticity, viscoelasticity and optimal control] **98g:73001**
Elasticity, viscoelasticity and optimal control ★ Élasticité, viscoélasticité et contrôle optimal. [Elasticity, viscoelasticity and optimal control] **98g:73001**
Ferrara ★ Nonlinear analysis and continuum mechanics. **98h:00030**
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Shapiro, Victor L. ★ Harmonic analysis and nonlinear differential equations. **98c:00018**
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Finite- and infinite-dimensional dynamics ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Gebze ★ Direct and inverse electromagnetic scattering. **98b:00024**
Harmonic analysis and nonlinear differential equations ★ Harmonic analysis and nonlinear differential equations. **98c:00018**
Institute:
Nonlinear Waves ★ Nonlinear waves. **98h:00031**
Integrability in dynamical systems ★ Интегрируемость в динамических системах. (Russian) [Integrability in dynamical systems] **98k:00007**
Integral methods in science and engineering ★ Integral methods in science and engineering. Vol. 1. **98i:00021**
— ★ Integral methods in science and engineering. Vol. 2. **98i:00022**
Inverse problems in wave propagation ★ Inverse problems in wave propagation. **98g:00026**
Kinshasa ★ Problèmes variationnels en mathématiques appliquées. (French) [Variational problems in applied mathematics] **98g:00032**
Kyoto ★ Finite- and infinite-dimensional dynamics. **98d:00017**
Lyon ★ Élasticité, viscoélasticité et contrôle optimal. [Elasticity, viscoelasticity and optimal control] **98g:73001**
Memorial Issue:
Grisvard, Pierre ★ {Dedicated to the memory of Pierre Grisvard}.
Minneapolis, MN ★ Inverse problems in wave propagation. **98g:00026**
— ★ Quasiclassical methods. **98g:00031**
Nonlinear analysis and continuum mechanics ★ Nonlinear analysis and continuum mechanics. **98h:00030**
Nonlinear instability analysis ★ Nonlinear instability analysis. **98f:00019**
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Oulu ★ Integral methods in science and engineering. Vol. 1. **98i:00021**
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Paris ★ Spectral analysis of complex structures. **98h:73002**
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— ★ Proceedings of the Fourth International Colloquium on Differential Equations. **98c:00012**
— ★ Proceedings of the Fifth International Colloquium on Differential Equations. **98c:00013**
— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
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— ★ Proceedings of the Seventh International Colloquium on Differential Equations. **98b:00027**
Quasiclassical methods ★ Quasiclassical methods. **98g:00031**
Riverside, CA ★ Harmonic analysis and nonlinear differential equations. **98c:00018**
Sapporo ★ Nonlinear waves. **98h:00031**
Seminar:
Partial Differential Equations ★ Topological and variational methods for nonlinear boundary value problems. **98e:00023**
South Hadley, MA ★ Optimization methods in partial differential equations. **98d:00021**

Special Issue:
Positive solutions of nonlinear problems ★ Positive solutions of nonlinear problems. **98k:34001**
Spectral analysis of complex structures ★ Spectral analysis of complex structures. **98h:73002**
Spectral theory, microlocal analysis, singular manifolds ★ Spectral theory, microlocal analysis, singular manifolds. **98k:00010**
Stuttgart ★ Analysis, numerics and applications of differential and integral equations. **98i:00036**
Symposium:
Algebraic Analysis Methods in Microlocal Analysis ★ Chōkyokusho kaiseki ni okeru daisū kaisekiteki hōhō. [Algebraic analysis methods in microlocal analysis] **98h:00024**
Differential Equations and Mathematical Physics ★ Differential equations and mathematical physics. **98f:00018**
Tbilisi ★ Differential equations and mathematical physics. **98f:00018**
Topological and variational methods for nonlinear boundary value problems ★ Topological and variational methods for nonlinear boundary value problems. **98e:00023**
Variational problems in applied mathematics ★ Problèmes variationnels en mathématiques appliquées. (French) [Variational problems in applied mathematics] **98g:00032**
Workshop:
Direct and Inverse Electromagnetic Scattering ★ Direct and inverse electromagnetic scattering. **98b:00024**
Inverse Problems in Wave Propagation ★ Inverse problems in wave propagation. **98g:00026**
Quasiclassical Methods ★ Quasiclassical methods. **98g:00031**

35Axx General theory

Items with secondary classifications in 35Axx

Boiti, C. (*with* Nacinovich, Mauro) The overdetermined Cauchy problem. (English and French summaries) **98a:35095**
Nacinovich, Mauro *see* **Boiti, C., 98a:35095**

35A05 General existence and uniqueness theorems

Bénilan, Philippe (*with* Bouhsiss, Fouzia) Une remarque sur l'unicité des solutions pour l'opérateur de Serrin. (English and French summaries) [A remark on the uniqueness of solutions for the Serrin operator] **98h:35002**
Bouhsiss, Fouzia *see* **Bénilan, Philippe, 98h:35002**
Isakov, Victor On uniqueness and stability in the Cauchy problem. (English summary) **98h:35003**
Ninomiya, Haruki On a question of local integrability for a complex vector field. **98j:35005**
Qu, Chang-Zheng *see* **Zhang, Quanju, 98g:35005**
Regbaoui, Rachid Strong uniqueness for second order differential operators. (English summary) **98i:35002**
Zhang, Quanju (*with* Qu, Chang-Zheng) Existence and uniqueness in the Cauchy problem for a class of differential equations with double characteristics. (Chinese. English and Chinese summaries) **98g:35005**

Items with secondary classifications in 35A05

Braun, Rüdiger W. Surjectivity of partial differential operators on Gevrey classes. (English summary) **98b:35028**
Colombini, Ferruccio (*with* Del Santo, Daniele; Zuily, Claude) The Fefferman-Phong inequality in the locally temperate Weyl calculus. **98b:35231**
Dacorogna, Bernard (*with* Marcellini, Paolo) General existence theorems for Hamilton-Jacobi equations in the scalar and vectorial cases. **98d:35029**
Del Santo, Daniele *see* **Colombini, Ferruccio; et al., 98b:35231**
Dossa, Marcel Espaces de Sobolev non isotropes, à poids et problèmes de Cauchy quasi-linéaires sur un conoïde caractéristique. (English and French summaries) [Nonisotropic weighted Sobolev spaces and quasilinear Cauchy problems on a weighted conoid] **98b:35117**
Ehrenpreis, Leon The role of Paley-Wiener theory in partial differential equations. **98e:35005**
Gourdin, Daniel (*with* Ngnosse, Severin; Takeuchi, Jiro) Problème de Cauchy pour certaines équations du type de Schrödinger. (English and French summaries) [Cauchy problem for certain equations of Schrödinger type] **98d:35030**
He, Chun Xiong (*with* Yu, Jian Ning) Explicit fundamental solutions for a class of nonhomogeneous nontransversally elliptic invariant differential operators on the two-step nilpotent Lie group $H_{2n+1} \times \mathbf{R}^{2d}$. (Chinese. English and Chinese summaries) **98m:58127**
Kaneko, Akira On the global solvability of linear partial differential equations with constant coefficients in the space of real analytic functions. (English summary) **98h:35033**
Korobeĭnik, Yu. F. On periodic solutions of the Cauchy problem. I. (Russian) **98b:35013**
— On periodic solutions of the Cauchy problem. II. (Russian) **98b:35014**
Koshimizu, Hiroshi (*with* Takeuchi, Kiyoshi[2]) Cauchy problems for sheaves and its applications. **98i:32011**
Mandai, Takeshi A construction of asymptotic solutions and the existence of smooth null-solutions for a class of non-Fuchsian partial differential operators. **98d:35025**
Marcellini, Paolo *see* **Dacorogna, Bernard, 98d:35029**
Müller, Detlef Horst (*with* Peloso, Marco M.; Ricci, Fulvio) On the solvability of homogeneous left-invariant differential operators on the Heisenberg group. (English summary) **98k:35024**
Ngnosse, Severin *see* **Gourdin, Daniel; et al., 98d:35030**
Ninomiya, Haruki A note on the Nirenberg example. **98f:35020**
Peloso, Marco M. *see* **Müller, Detlef Horst; et al., 98k:35024**
Ricci, Fulvio *see* **Müller, Detlef Horst; et al., 98k:35024**
Takeuchi, Jiro *see* **Gourdin, Daniel; et al., 98d:35030**
Takeuchi, Kiyoshi[2] *see* **Koshimizu, Hiroshi, 98i:32011**
Tarama, Shigeo Local uniqueness in the Cauchy problem for second order elliptic equations with non-Lipschitzian coefficients. (English summary) **98g:35053**
Wang, Wei Ke The uncertainty principle and uniqueness for Cauchy problems. (Chinese. English and Chinese summaries) **98f:35033**
Yu, Jian Ning *see* **He, Chun Xiong, 98m:58127**
Zuily, Claude *see* **Colombini, Ferruccio; et al., 98b:35231**

35A07 Local existence and uniqueness theorems [see also 35H05, 35Sxx]

Berhanu, S. (*with* Meziani, Abdelhamid) Global properties of a class of planar vector fields of infinite type. (English summary) **98c:35003**
Ertas, Abdulkadir A theorem on the local solvability of a partial differential equation. (English summary) **98h:35004**
Gareilo, G. Local solvability for semilinear equations with multiple characteristics. **98i:35003**
Han, Zuhong Local solvability of analytic pseudodifferential complexes in top degree. **98c:35004**
Kim, Rakjoong Unsolvability of some partial differential operator. (English summary) **98k:35005**
Meziani, Abdelhamid *see* **Berhanu, S., 98c:35003**
Popivanov, Petʲr R. Local solvability of some classes of linear partial differential operators. (Italian summary) **98i:35004**
Qu, Chang-Zheng (*with* Zhang, Quanju) Necessary conditions for local solvability of differential operators. (English and Chinese summaries) **98a:35002**
Zhang, Quanju *see* **Qu, Chang-Zheng, 98a:35002**

Items with secondary classifications in 35A07

Hörmander, Lars On the solvability of pseudodifferential equations. **98f:35166**
Hounie, Jorge (*with* Santiago, Paulo) Local solvability in L^p of first order semilinear equations. (English and Portuguese summaries) **98b:35030**
— (*with* Moraes Melo, Maria Eulália) Local a priori estimates in L^p for first order linear operators with nonsmooth coefficients. (English summary) **98j:35022**
Lerner, Nicolas Energy methods via coherent states and advanced pseudo-differential calculus. **98d:35244**
— Wave packets techniques. **98j:35196**
Moraes Melo, Maria Eulália *see* **Hounie, Jorge, 98j:35022**
Ponce, Gustavo Local existence theory for the generalized Schrödinger equation. (*see* **98f:35004**)
Reissig, Michael (*with* Yagdzhyan, K. A.) On the Stokes matrix for a family of infinitely degenerate operators of second order. **98k:35025**
Santiago, Paulo *see* **Hounie, Jorge, 98b:35030**
Yagdzhyan, K. A. *see* **Reissig, Michael, 98k:35025**

35A08 Fundamental solutions

Kawakami, Hajime Details of a construction of the fundamental solution to the nonhomogeneous oblique derivative problem for a diffusion equation on a Riemannian domain. **98i:35005**

Items with secondary classifications in 35A08

Accetta, Gabriele (*with* Orsingher, Enzo) Asymptotic expansion of fundamental solutions of higher order heat equations. (English summary) **98h:35092**
Beals, Richard (*with* Gaveau, Bernard; Greiner, Peter C.) Subelliptic geometry and fundamental solutions. (English summary) **98f:35025**
— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. I. **98b:35032a**
— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. II. **98b:35032b**
— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. III. **98b:35032c**
— (*with* Gaveau, Bernard; Greiner, Peter C.) Subelliptic geometry. (English summary) **98m:35026**
Chudinovich, I. Yu. *see* **Dol'berg, M. D., (98d:00009)**
Damek, Ewa Fundamental solutions of differential operators on homogeneous manifolds of negative curvature and related Riesz transforms. **98f:22013**
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Greiner, Peter C. *see* **Beals, Richard; et al., 98b:35032a; 98b:35032b; 98b:35032c; 98f:35025** *and* **98m:35026**
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35A10 Cauchy-Kovalevskaya theorems

Gérard, Raymond Sur l'existence de solutions holomorphes du problème de Cauchy pour des équations aux dérivées partielles non linéaires. (English summary) [Existence of holomorphic solutions of the Cauchy problem for nonlinear partial differential equations] **98j:35006**

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35A15 Variational methods

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Agarwal, Ravi P. *see* **Sheng, Qin, 98m:35216**

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Kaup, D. J. (*with* Lakoba, T. I.) How the variational method can give rise to false instabilities. (English summary) **98b:35182**

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35A20 Analytic methods, singularities

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Ebenfelt, Peter (*with* Shapiro, Harold S.) A quasi-maximum principle for holomorphic solutions of partial differential equations in $\mathbf{C}^n$. (English summary) **98c:35006**

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Fischer, Bert (*with* Tarkhanov, Nikolai N.) A representation of solutions with singularities. (English summary) **98i:35006**

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— *see also* **Gérard, Raymond, 98b:35008** *and* **98d:35005**

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— Nonlinear singular first order partial differential equations whose characteristic exponent takes a positive integral value. (English summary) **98m:35005**

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— *see also* **Miyake, Masatake, 98a:47053**

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35A22 Transform methods (e.g. integral transforms)

Fokas, Athanassios S. A unified transform method for solving linear and certain nonlinear PDEs. (English summary) **98e:35007**

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McCoy, Peter A. A classical theorem on the singularities of Legendre series in $\mathbf{C}^3$ and associated system of hyperbolic partial differential equations. (English summary) **98d:35008**

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35A25 Other special methods

Aliev, N. A. (*with* Jahanshahi, Mohammad) Sufficient conditions for reduction of the BVP including a mixed PDE with non-local boundary conditions to Fredholm integral equations. (English summary)

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Górowski, Jan (*with* Zajtz, Andrzej) On a class of linear differential operators of first order with singular point. (English summary) **98g:35032**

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Hu, Pei-Chu (*with* Yang, Chung-Chun) Further results on factorization of meromorphic solutions of partial differential equations. (English summary) **98f:32003**

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Tahara, Hidetoshi Formal power series solutions of non-linear partial differential equations of the first order. (English summary) (*see* **98h:00024**)

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Zeng, Yunbo Separation of variables for the constrained flows. (English summary) **98f:35124**

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35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [see also 32C38, 58G07]

Kang, Bu Hyeon On the $H^s_{(p)}$-wave front sets. (English summary) **98e:35010**
Liess, Otto Higher microlocalization and propagation of singularities. **98h:35006**
Martinez, André Microlocal exponential estimates and applications to tunneling. **98j:35008**
Okada, Yasunori Solvability and propagation of singularities for some class of microdifferential equations in the spaces of micro-distributions. (English summary) **98f:35007**
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Uchikoshi, Keisuke Microlocal study of Tricomi equations. (*see* **98h:00024**)
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35Bxx Qualitative properties of solutions

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35B50 Maximum principles

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35B60 Continuation and prolongation of solutions of PDE [see also 58A15, 58A17, 58Hxx]

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35B65 Smoothness/regularity of solutions of PDE

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Tulupova, L. A. *see* **Fushchich, Vīl′gel′m Īlīch; et al., 98j:35139**
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Wang, Ming Liang (*with* Zhou, Yu Bin) Exact solutions of a nonlinear wave equation. (Chinese. English and Chinese summaries)
— *see also* **Zhou, Yu Bin, 98g:35186**
Wang, Xin Yi (*with* Fan, Shaobin; Kyu, T.) Complete and exact solutions of a class of nonlinear diffusion equations and problem of velocity selection. (English summary)
Watanabe, Michiaki (*with* Watanabe, Shuji) The explicit solution of a diffusion equation with singularity. (English summary) **98d:35119**
Watanabe, Shuji *see* **Watanabe, Michiaki, 98d:35119**

Witelski, Thomas P. Similarity solutions of the lubrication equation. (English summary) **98d:35222**
Zhdanov, R. Z. (*with* Lagno, Viktor Ivanovich) On the new exact solutions of the Yang-Mills equations. (Russian and Ukrainian summaries) **98h:53120**
Zhou, Guang Hui (*with* Maofa, Fang; Duan, Yi Wu) The explicit expressions for the phase shifts of N-soliton solution of the KdV equation. (English summary)
Zhou, Yu Bin (*with* Wang, Ming Liang) Exact solutions to a system of coupled nonlinear partial differential equations in physics. (Chinese. English and Chinese summaries) **98g:35186**
— *see also* **Wang, Ming Liang**

35C10 Series solutions, expansion theorems

Altın, Abdullah (*with* Young, Eutiquio C.) Homogeneous solutions for a class of singular partial differential equations.
Baranov, A. S. On a special class of harmonic and biharmonic functions that are adapted to the solution of boundary value problems of mathematical physics on a spheroid. (Russian. Russian summary) **98a:35012**
Bordakov, E. V. *see* **Repnikov, V. D.; et al., 98b:35023**
Fairlie, David B. Formal solutions of an evolution equation of Riemann type. (English summary) **98f:35018**
Jancewicz, Bernard *see* **Sommen, Franciscus C., 98f:35019**
Karachik, V. V. Continuity of polynomial solutions with respect to the coefficient of the higher derivative. (English summary)
Khukhryanskiĭ, Yu. P. *see* **Repnikov, V. D.; et al., 98b:35023**
Lo, Chi Yeung Expansions in terms of generalized telegraph polynomials and complementary functions. (English summary)
Pliś, Maria E. (*with* Ziemian, Bogdan) Borel resummation of formal solutions to nonlinear Laplace equations in 2 variables. (English summary) **98j:35024**
— Singular solutions of some nonlinear singular partial differential equations. (English summary) **98h:35026**
Polosin, A. A. On the expansion of the solution of the generalized Gellerstedt problem in a biorthogonal series. (Russian. Russian summary) **98g:35031**
Repnikov, V. D. (*with* Khukhryanskiĭ, Yu. P.; Bordakov, E. V.) On some function series containing roots of a transcendental equation. (Russian. Russian summary) **98b:35023**
Sommen, Franciscus C. (*with* Jancewicz, Bernard) Explicit solutions of the inhomogeneous Dirac equation. (English summary) **98f:35019**
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Young, Eutiquio C. *see* **Altın, Abdullah**
Ziemian, Bogdan *see* **Pliś, Maria E., 98j:35024**

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Aldashev, S. A. On the well-posedness of Dirichlet problems for the multidimensional wave equation and the multidimensional Lavrent′ev-Bitsadze equation. (Russian. English and Ukrainian summaries) **98c:35121**
Altın, Abdullah (*with* Kaya, Meryem) The extension of Bateman theorem for an ultrahyperbolic equation. (English summary) **98a:35092**
Charrière, H. (*with* Gérard, Raymond) Étude des équations de la forme $\tau y = F(x, y)$ où τ est un champ de vecteurs singulier à l'origine de $\mathbf{C}^n$ et $F(x, y)$ une fonction holomorphe à l'origine de $\mathbf{C}^n$. [Study of equations of the form $\tau y = F(x, y)$, where τ is a vector field singular at the origin in $\mathbf{C}^n$ and $F(x, y)$ a function holomorphic at the origin in $\mathbf{C}^n$] **98c:35005**
Chen, Yunkai Cylindrical Korteweg-de Vries equation and travelling wave solutions. (English summary) **98c:35138**
Engliš, Miroslav (*with* Peetre, Jaak) A Green's function for the annulus. (English summary) **98b:35045**
Fischer, Bert (*with* Tarkhanov, Nikolai N.) A representation of solutions with singularities. (English summary) **98i:35006**
Gérard, Raymond *see* **Charrière, H., 98c:35005**
Hansen, Thorkild B. *see* **Norris, Andrew N., 98g:35047**
Kaya, Meryem *see* **Altın, Abdullah, 98a:35092**
McCoy, Peter A. A classical theorem on the singularities of Legendre series in $\mathbf{C}^3$ and associated system of hyperbolic partial differential equations. (English summary) **98d:35008**
Miyake, Masatake (*with* Yoshino, Masafumi) Necessary conditions for Fredholmness of partial differential operators of irregular singular type. **98a:47053**
Norris, Andrew N. (*with* Hansen, Thorkild B.) Wavefield representation using compact and directionally localized sources. (English summary) **98g:35047**
Peetre, Jaak *see* **Engliš, Miroslav, 98b:35045**
Péladan-Germa, Ariane Testing identities of series defined by algebraic partial differential equations. (English summary) **98d:35011**
Peterson, T. E. Eliminating Gibb's effect from separation of variables solutions. (English summary)
Rakoczy, Krystyna On some class of the parabolic polynomials. (English summary)
Tahara, Hidetoshi Removable singularities of solutions of nonlinear singular partial differential equations. **98i:35008**
Tarkhanov, Nikolai N. *see* **Fischer, Bert, 98i:35006**
Titov, S. S. On nonlinear equations of Fuchs type. (Russian. English and Russian summaries) **98b:35010**
Turek, Z. A new method of finding strong approximation to solutions to some IBVPs. (English summary) **98e:65086**
Watzlawek, W. Remarks on analytic solutions of Leray-Volevich-coupled systems. (English summary) **98f:35017**
Yoshino, Masafumi *see* **Miyake, Masatake, 98a:47053**

35C15 Integral representations of solutions of PDE

Budaev, B. V. ★ Diffraction by wedges. (English summary) **98b:35024**
Chen, Hongwei The Poisson formula revisited. (English summary)
Górowski, Jan (*with* Zajtz, Andrzej) On a class of linear differential operators of first order with singular point. (English summary) **98g:35032**
Vagabov, A. I. The generalized Fourier method for solving a mixed problem for hyperbolic systems. (Russian) **98e:35028**
Witte, Jörg A generalised Pompeiu formula related to differential equations in $\mathbf{C}^n$ with higher order. (English summary) **98d:35024**
Yanushauskas, A. I. Integral representations of solutions of some partial differential equations. (Russian. Lithuanian summary) **98e:35029**
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Baderko, Elena A. Parabolic problems and boundary integral equations. (English summary) **98a:35055**
Bi, Guang Qing Applications of abstract operators to partial differential equations. I. (Chinese. English and Chinese summaries) **98i:35021**
Borisov, V. V. (*with* Simonenko, Irina I.) Construction of Bessel-Gauss type solutions for the telegraph equation. (English summary)
Bressloff, Paul C. A new Green's function method for solving linear PDE's in two variables. (English summary) **98e:35009**
Hazard, Christophe (*with* Lenoir, Marc) On the solution of time-harmonic scattering problems for Maxwell's equations. (English summary) **98c:35157**
Ivasishen, S. D. (*with* Kondur, O. S.) Properties of a class of solutions of a homogeneous system of arbitrary order that is parabolic in the sense of Petrovskiĭ. (Ukrainian. English summary) **98a:35056**
— *see also* **Voznyak, O. G., 98b:35104**
Khapaev, A. M. (*with* Tsygankov, A. A.) An integral representation of solutions of the Klein-Gordon equation. (Russian. Russian summary)
Khoma, G. P. (*with* Petrīvs′kiĭ, Ya. B.) Solvability of a periodic boundary value problem. (Ukrainian. English and Ukrainian summaries) **98k:35011**
Kondur, O. S. *see* **Ivasishen, S. D., 98a:35056**
Koroński, Jan ★ Polyparabolic initial-boundary problems. (English, German, Russian and Polish summaries) **98i:35081**
— The first linear polyparabolic problem for the half-unbounded time-spatial domain with curvilinear boundary. (English summary) **98i:35082**
Kravchenko, Vladislav V. (*with* Shapiro, M. V.) ★ Integral representations for spatial models of mathematical physics. (English summary) **98d:30054**
Krutitskiĭ, Pavel A. A mixed problem for the Helmholtz equation outside cuts on the plane. (Russian. Russian summary) **98m:35030**
Leĭnartas, E. K. On the Cauchy problem in a class of entire functions in several variables. (English summary) **98h:35005**
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Mocică, Gheorghe A method for solving equations of parabolic type. (English summary) **98i:35078**
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Pieniążek, Alicja Contact problem for three curvilinear layers. **98c:35169**
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Saitoh, Saburou Analyticity of the solutions of the heat equation on the half space $\mathbf{R}^n_+$. (English summary) (*see* **98c:00012**)
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Shatalov, V. E. *see* **Sternin, Boris Yu., 98d:35044**
Simonenko, Irina I. *see* **Borisov, V. V.**
Sternin, Boris Yu. (*with* Shatalov, V. E.) On the solvability of multidimensional Fuchsian equations in classes of resurgent functions. (Russian) **98d:35044**
Tsutsui, Toru Interaction of regular singularities in linear propagation. **98g:35008**
Tsygankov, A. A. *see* **Khapaev, A. M.**
Umbetzhanov, D. U. On correctly solvable boundary value problems for systems of equations with higher-order elliptic operators. (Russian. Russian summary) **98c:35039**
Voznyak, O. G. (*with* Ivasishen, S. D.) Fundamental solutions of the Cauchy problem for a class of degenerate parabolic equations and their applications. (Ukrainian. English summary) **98b:35104**

35C20 Asymptotic expansions

Dan, Wakako On the low-frequency asymptotic expansion for some second-order elliptic systems in a two-dimensional exterior domain. (English summary) **98c:35020**
— Low-frequency asymptotic expansion for second order system in a two-dimensional exterior domain. (*see* **98h:00031**)
Danilov, V. G. (*with* Maslov, V. P.; Volosov, K. A.) ★ Mathematical modelling of heat and mass transfer processes. (English summary) **98a:35013**
Denisov, I. V. A boundary value problem for a quasilinear singularly perturbed parabolic equation in a rectangle. (Russian. Russian summary) **98c:35021**
Donnat, Phillipe (*with* Rauch, Jeffrey) Dispersive nonlinear geometric optics. (English summary) **98c:35022**
Easwaran, Chirakkal V. A scaled characteristics method for the asymptotic solution of weakly nonlinear wave equations. (English summary) **98h:35027**
Grenier, Emmanuel (*with* Guès, Olivier) Boundary layers for viscous perturbations of noncharacteristic quasilinear hyperbolic problems. (English summary) **98j:35026**
Guès, Olivier Viscous boundary layers and high frequency oscillations. **98j:35025**
— *see also* **Grenier, Emmanuel, 98j:35026**
Mandai, Takeshi A construction of asymptotic solutions and the existence of smooth null-solutions for a class of non-Fuchsian partial differential operators. **98d:35025**
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Rauch, Jeffrey *see* **Donnat, Phillipe, 98c:35022**
Sablé-Tougeron, Monique Justification de l'optique géométrique faiblement non linéaire pour le problème mixte: cas des concentrations. (English summary) [Justification of weakly nonlinear geometric optics for the mixed problem: the case of concentrations] **98g:35033**
(Shishkova, M. A.) *see* **Danilov, V. G.; et al., 98a:35013**

Sokīl, B. Ī. On the application of Ateb function for constructing a solution of the nonlinear Klein-Gordon equation. (Ukrainian. English and Ukrainian summaries) **98m:35019**
(Vakulenko, S. A.) *see* **Danilov, V. G.; et al., 98a:35013**
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Yang, Jianke Multiple permanent-wave trains in nonlinear systems. (English summary) **98i:35019**

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Argatov, I. I. (*with* Nazarov, Sergei A.) Asymptotic solution of the Signorini problem with an obstacle on a thin elongated set. (Russian. Russian summary) **98c:35066**
Barenblatt, G. I. ★ Scaling, self-similarity, and intermediate asymptotics. (English summary) **98a:00005**
Beals, Richard (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. I. **98b:35032a**
— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. II. **98b:35032b**
— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. III. **98b:35032c**
Bernardi, Enrico (*with* Bove, Antonio; Nishitani, Tatsuo) Well-posedness of the Cauchy problem for a class of hyperbolic operators with a stratified multiple variety: necessary conditions. **98g:35135**
Bochniak, M. Computation of coefficients in the asymptotics of solutions for 2D elastic interface problems. (*see* **98i:00036**)
Bourgeat, Alain (*with* Marušić-Paloka, Eduard; Mikelić, Andro) Weak nonlinear corrections for Darcy's law. (English summary) **98c:35126**
Bove, Antonio *see* **Bernardi, Enrico; et al., 98g:35135**
Bruno, Alexander D. A general approach to asymptotic nonlinear analysis. (Russian. Russian summary) **98g:34068**
Butuzov, V. F. (*with* Derkunova, E. A.) Asymptotic behavior of the solution of the heat equation with a nonlinear heat source in a thin rod. (Russian. Russian summary) **98h:35113**
Cahn, John W. (*with* Novick-Cohen, Amy) Limiting motion for an Allen-Cahn/Cahn-Hilliard system. (English summary) **98j:80007**
Campbell, Alain (*with* Nazarov, Sergei A.) Une justification de la méthode de raccordement des développements asymptotiques appliquée à un problème de plaque en flexion. Estimation de la matrice d'impédance. (English and French summaries) [A justification of the method of matching asymptotic expansions applied to a bending plate problem. Estimation of the impedance matrix] **98f:73025**
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Derkunova, E. A. *see* **Butuzov, V. F., 98h:35113**
Dix, Daniel B. ★ Large-time behavior of solutions of linear dispersive equations. **98m:35017**
Eckhaus, Wiktor (*with* Kuske, Rachel) Pattern formation in systems with slowly varying geometry. (English summary) **98b:76035**
Fulling, Stephen A. Kernel asymptotics of exotic second-order operators. (English summary) **98c:58168**
Gadyl'shin, Rustem R. On scattering by a cylindrical surface with a narrow crack. (Russian. Russian summary) **98i:35205**
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Greiner, Peter C. *see* **Beals, Richard; et al., 98b:35032a; 98b:35032b** *and* **98b:35032c**
Grenier, Emmanuel Boundary layers for parabolic regularizations of totally characteristic quasilinear parabolic equations. (English and French summaries) **98m:35085**
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Hagstrom, Thomas (*with* Hariharan, S. I.) Progressive wave expansions and open boundary problems. (English summary) **98g:65098**
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Joly, Patrick (*with* Tuomela, Jukka) A new theoretical approach to absorbing layers. (English summary) **98a:65148**
Kashchenko, S. A. Normalization in the systems with small diffusion. (English summary) **98c:35088**
Khasminskii, Rafail Z. (*with* Yin, Gang George) On transition densities of singularly perturbed diffusions with fast and slow components. (English summary) **98d:60158**
Khoma, G. P. *see* **Mitropol'skiĭ, Yurīĭ Alekseevich; et al., 98g:35131**
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Kowalczyk, Michał Exponentially slow dynamics and interfaces intersecting the boundary. **98f:35081**
Kravchenko, V. F. (*with* Nesenenko, G. A.) An asymptotic solution of a nonstationary problem of heat conduction with a nonlinear condition of exponential type on a moving boundary. (Russian)
Kuske, Rachel *see* **Eckhaus, Wiktor, 98b:76035**
Kuznetsov, N. G. (*with* Maz'ya, Vladimir G.) Asymptotic analysis of surface waves due to high-frequency disturbances. (English and Italian summaries) **98k:76013**
Lai, Shao Yong (*with* Mu, Chun Lai) The asymptotic theory of initial value problems for semilinear wave equations in three space dimensions. (English summary) **98k:35128**
Lapshin, A. E. Asymptotic solution of the Dirichlet problem for a nonstationary system of equations in the theory of elasticity. (Russian) **98f:35147**
Leguillon, Dominique Comparison of matched asymptotics, multiple scalings and averages in homogenization of periodic structures. (English summary) **98e:73008**
Lelikova, E. F. On the asymptotic behavior of the fundamental solution of a second-order parabolic equation. (Russian. English and Russian summaries) **98g:35087**
Łysik, Grzegorz (*with* Ziemian, Bogdan) Exact radial asymptotics of solutions to singular elliptic differential equations. (*see* **98c:00013**)
MacCamy, Richard C. Low frequency expansions for two-dimensional interface scattering problems. (English summary) **98k:35113**
Marušić-Paloka, Eduard *see* **Bourgeat, Alain; et al., 98c:35126**
Maz'ya, Vladimir G. *see* **Kuznetsov, N. G., 98k:76013**
Mazzeo, Rafe (*with* Pacard, Frank) A construction of singular solutions for a semilinear elliptic equation using asymptotic analysis. (English summary) **98a:35040**
Mikelić, Andro *see* **Bourgeat, Alain; et al., 98c:35126**
Mitropol'skiĭ, Yurīĭ Alekseevich (*with* Khoma, G. P.; Gromyak, M.) ★ Asymptotic methods for investigating quasiwave equations of hyperbolic type. (English summary) **98g:35131**
Mo, Jia Qi (*with* Xu, Yuxing) The singularly perturbed boundary value problems for higher order semilinear elliptic equations. (English summary) **98h:35014**
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Nazarov, Sergei A. *see* **Argatov, I. I., 98c:35066** *and* **Campbell, Alain, 98f:73025**
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Palagachev, Dian K. (*with* Romano, Vittorio) Existence and uniqueness of asymptotic wave solutions for the hydrodynamical model of semiconductors. (English summary) **98d:35218**
Pal'-Val', A. P. *see* **Ostapenko, D. Yu.; et al., 98b:35163**
Pankratova, T. F. An ansatz with Hermite polynomials for a multidimensional potential well. (Russian. English and Russian summaries) **98m:35034**
Romano, Vittorio *see* **Palagachev, Dian K., 98d:35218**
Shatalov, V. E. *see* **Sternin, Boris Yu., 98g:35007**
Shevchuk, O. V. On the construction of asymptotic solutions of a hyperbolic differential equation of neutral type with random deviations of the argument. (Ukrainian. English summary)
Shih, Shagi-Di A novel uniform expansion for a singularly perturbed parabolic problem with corner singularity. (English summary) **98c:35011**
Sobolev, Aleksandr Vladimirovich² Two-term asymptotics for the sum of eigenvalues of the Schrödinger operator with Coulomb singularities in a homogeneous magnetic field. (English summary) **98h:81024**
Sternin, Boris Yu. (*with* Shatalov, V. E.) Asymptotic solutions to Fuchsian equations in several variables. (English summary) **98g:35007**
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Varlamov, Vladimir V. On spatially periodic solutions of the damped Boussinesq equation. (English summary) **98m:35186**
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Ward, Michael J. Topics in singular perturbations and hybrid asymptotic-numerical methods. (English summary) **98b:65120**
Williams, Mark Nonlinear geometric optics for hyperbolic boundary problems. (English summary) **98d:35136**
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Berenstein, Carlos A. (*with* Kawai, Takahiro; Struppa, Daniele C.; Takei, Yoshitsugu) Exponential representation of a holomorphic solution of a system of differential equations associated with the theta-zerovalue. **98h:35028**
Caginalp, Gunduz Renormalization and scaling methods for nonlinear parabolic systems. (English summary) **98h:35029**
Charalambopoulos, A. (*with* Dassios, George; Hadjinicolaou, M.) An analytic solution for low-frequency scattering by two soft spheres. (English summary) **98m:35020**
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Gragg, Robert F. One-way propagation in weakly nonuniform media. (English summary) **98k:35017**
Gudkov, V. V. Real and complex wave solutions of nonlinear evolution equations. (Russian. English and Russian summaries)
Hadjinicolaou, M. *see* **Charalambopoulos, A.; et al., 98m:35020**
Ishchanov, B. Zh. On the representation of solutions of certain classes of equations as potentials of measures distributed on the set of singularities of these solutions. (Russian)
Kawai, Takahiro *see* **Berenstein, Carlos A.; et al., 98h:35028**
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Adler, V. Ė. (*with* Khabibullin, I. T.; Shabat, A. B.) A boundary value problem for the KdV equation on a half-line. (Russian. English and Russian summaries) **98g:35174**
Ali, Ismail *see* **Kalla, Shyam L., 98g:34017**
Anikonov, Yu. E. Analytic representations of solutions of multidimensional inverse problems for evolution equations. (Russian) **98a:35137**
Boyaci, H. (*with* Pakdemirli, Mehmet) A comparison of different versions of the method of multiple scales for partial differential equations. (English summary) **98h:73056**
Camacho, Javier (*with* Ferrer, M. V.; Navarro, E.) Analytic-numerical solutions with a prefixed accuracy for partial differential systems with coupled separated boundary value conditions. (English summary) **98m:65157**
Camilli, Fabio (*with* Siconolfi, Antonio) Discontinuous solutions of a Hamilton-Jacobi equation with infinite speed of propagation. (English summary) **98h:35035**
Campiti, Michele (*with* Metafune, Giorgio) Solutions of abstract Cauchy problems approximated by Stancu-Schnabl-type operators. (English and Italian summaries)

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Croc, Elisabeth (*with* Dermenjian, Yves) Generalized modes in an acoustic strip. (English summary) **98j:35032**
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Fei, Shu Min *see* **Feng, Zhao Sheng; et al.**
Feng, Zhao Sheng (*with* Ji, Wen Duo; Fei, Shu Min) Analytic solutions of a generalized Klein-Gordon equation. (Chinese. Chinese summary)
Ferrer, M. V. *see* **Camacho, Javier; et al., 98m:65157**
Fitouhi, A. (*with* Mahmoud, N. H.; Mahmoud, S. A. Ould Ahmed) Polynomial expansions for solutions of higher-order Bessel heat equations. (English summary) **98j:33003**
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Gandel′, Yu. V. (*with* Lifanov, I. K.; Polyanskaya, T. S.) On a justification of the method of discrete singularities in two-dimensional diffraction problems. (Russian. Russian summary) **98b:35034**
Gao, Yi Tian *see* **Tian, Bo, 98f:58115**
Gomilko, A. M. *see* **Meleshko, V. V., 98j:73103**
Goncharuk, N. Yu. Fractional step method for a class of quasilinear stochastic differential equations of parabolic type. (English summary) **98j:35086**
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Namah, Gawtum (*with* Roquejoffre, Jean-Michel) Comportement asymptotique des solutions d'une classe d'équations paraboliques et de Hamilton-Jacobi. (English and French summaries) [Long-time behavior of the solutions of a class of nonlinear parabolic and Hamilton-Jacobi equations] **98c:35078**
Newcomb, Richard T., II (*with* Su, Jianzhong) Some results on the viscosity solutions of Hamilton-Jacobi equations. (English summary) **98a:49047**
Nosovskiĭ, G. V. Nonlinear potentials for Hamilton-Jacobi-Bellman equations. II. (English summary) **98a:49048**
Papakov, G. V. (*with* Taras'ev, A. M.; Uspenskiĭ, A. A.) Numerical approximations of generalized solutions of Hamilton-Jacobi equations. (Russian. Russian summary) **98e:65084**
Roquejoffre, Jean-Michel *see* **Namah, Gawtum**, **98c:35078**
Serapioni, Raul *see* **Franchi, Bruno**; **et al.**, **98c:49037**
Serra Cassano, Francesco *see* **Franchi, Bruno**; **et al.**, **98c:49037**
Struwe, Michael ★ Variational methods. **98f:49002**
Su, Jianzhong *see* **Newcomb, Richard T., II**, **98a:49047**
Subbotin, Andrei Izmailovich M-solutions of first-order partial differential equations and their application in a differential pursuit game. (Russian) (*see* **98b:00019**)
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Turo, Jan Nonlocal problems for quasilinear functional partial differential equations of first order. (English summary) **98h:35231**
Uspenskiĭ, A. A. *see* **Papakov, G. V.**; **et al.**, **98e:65084**
Wang, Shihong Averaging of Hamilton-Jacobi equations in infinite dimensions and its applications. (Chinese)
Yamane, Hideshi Nonlinear singular first order partial differential equations whose characteristic exponent takes a positive integral value. (English summary) **98m:35005**

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Jensen, Robert R. *see* **Barron, E. N.**; **et al.**, **98g:35038**
Liu, Wenxiong *see* **Barron, E. N.**; **et al.**, **98g:35038**
Nguyen Hoang *see* **Trần Đứ'c Vân**; **et al.**, **98d:35028**
Shi, Fa Peng Global smooth solutions to generalized Cauchy problems for first-order quasilinear partial differential equations. (Chinese. English and Chinese summaries) **98e:35033**
Trần Đứ'c Vân (*with* Nguyen Hoang; Tsuji, Mikio) On Hopf's formula for Lipschitz solutions of the Cauchy problem for Hamilton-Jacobi equations. **98d:35028**
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Cardaliaguet, Pierre (*with* Plaskacz, Sławomir) Viability and invariance for differential games with applications to Hamilton-Jacobi-Isaacs equations. **98m:90209**
Izumiya, Shyuichi (*with* Kossioris, Georgios T.) Bifurcations of shock waves for viscosity solutions of Hamilton-Jacobi equations of one space variable. (English and French summaries) **98m:35131**
Kossioris, Georgios T. *see* **Izumiya, Shyuichi**, **98m:35131**
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Silin, D. B. Viscosity solutions via unbounded set-valued integration. **98k:49041**
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35F30 Boundary value problems for nonlinear first-order PDE

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Bozhkov, Yuri On a quasilinear system involving K-Hessian operators. (English summary) **98a:35016**

Dacorogna, Bernard (*with* Marcellini, Paolo) Dirichlet problem for nonlinear first order partial differential equations. (English summary) **98h:35037**

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Maslov, V. P. (*with* Samborskiĭ, S. N.) Boundary value problems for stationary Hamilton-Jacobi and Bellman equations. (Russian. English and Ukrainian summaries) **98f:35021**

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Blanc, Alain-Philippe Deterministic exit time control problems with discontinuous exit costs. (English summary) **98a:49045**

Człapiński, Tomasz On the mixed problem for quasilinear partial differential-functional equations of the first order. (English summary) **98d:35225**

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Iftimie, Dragos Approximation du système quasigéostrophique à l'aide des systèmes primitifs. (English and French summaries) [Approximation of the quasigeostrophic system using the primitive systems] **98b:35131**

Inglese, Gabriele A stochastic perturbation method for studying inverse problems of dynamics. (English summary) **98d:34087**

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Kuksin, Sergeĭ B. On small-denominators equations with large variable coefficients. (English summary) **98i:58201**

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Zhang, Hong Qing[1] (*with* Alatancang; Zhong, Wan Xie) The Hamiltonian system and completeness of symplectic orthogonal system. (Chinese) **98i:34085**

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35Gxx General higher-order equations and systems

Pilipović, Stevan Linear equations with singular coefficients in the frame of Colombeau's generalized functions. (English summary) (*see* **98b:00031**)

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Gromyak, M. *see* **Mitropol'skiĭ, Yuriĭ Alekseevich; et al., 98g:35131**

Khoma, G. P. *see* **Mitropol'skiĭ, Yuriĭ Alekseevich; et al., 98g:35131**

(Khruzin, Andrei) *see* **Mitropol'skiĭ, Yuriĭ Alekseevich; et al., 98g:35131**

Mitropol'skiĭ, Yuriĭ Alekseevich (*with* Khoma, G. P.; Gromyak, M.) ★Asymptotic methods for investigating quasiwave equations of hyperbolic type. (English summary) **98g:35131**

35G05 General theory of linear higher-order PDE

Bai, Fengtu (*with* Gu, Yong Geng; Miao, Changxing) Fractional order evolution equation interpolating both heat and wave equation. (English summary) **98g:35039**

Braun, Rüdiger W. (*with* Meise, Reinhold; Taylor, B. Alan) Uniform growth of analytic curves away from real points. **98k:35021**

Filatov, P. S. Local anisotropic Hölder estimates for solutions of an equation of quasi-elliptic type. (Russian. Russian summary) **98k:35022**

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Liess, Otto (*with* Rodino, Luigi) Linear partial differential equations with multiple involutive characteristics. **98e:35034**

Meise, Reinhold *see* **Braun, Rüdiger W.; et al., 98k:35021**

Miao, Changxing *see* **Bai, Fengtu; et al., 98g:35039**

Miyake, Masatake *see* **Yoshino, Masafumi, 98e:35035**

Rodino, Luigi *see* **Liess, Otto, 98e:35034**

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Kamran, Niky (*with* Tenenblat, K.) Periodic systems for the higher-dimensional Laplace transformation. (English summary) **98m:35139**

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Littman, Walter (*with* Yan, Baisheng) Rellich type decay theorem for equation $P(D)u = f$ with f supported in infinite cylinders. (English summary) **98c:35024**

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Raid, Al-Momani Regular polynomials in the problem of comparability of two differential operators. (English summary) **98g:35009**

Sadik, Brahim The complexity of formal resolution of linear partial differential equations. (English summary) **98e:35015**

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Yan, Baisheng *see* **Littman, Walter, 98c:35024**

35G10 Initial value problems for linear higher-order PDE, linear evolution equations

Bi, Guang Qing Applications of abstract operators to partial differential equations. I. (Chinese. English and Chinese summaries) **98i:35021**

Brandolini, Luca (*with* Colzani, Leonardo) Fourier transform, oscillatory multipliers and evolution equations in rearrangement invariant function spaces. **98f:35022**

Colzani, Leonardo *see* **Brandolini, Luca, 98f:35022**

Gourdin, Daniel (*with* Ngnosse, Severin; Takeuchi, Jiro) Problème de Cauchy pour certaines équations du type de Schrödinger. (English and French summaries) [Cauchy problem for certain equations of Schrödinger type] **98d:35030**

Ngnosse, Severin *see* **Gourdin, Daniel; et al., 98d:35030**

Sevast'yanov, V. A. *see* **Zhegalov, V. I., 98j:35029**

Takeuchi, Jiro *see* **Gourdin, Daniel; et al., 98d:35030**

Zhegalov, V. I. (*with* Sevast'yanov, V. A.) The Goursat problem in four-dimensional space. (Russian. Russian summary) **98j:35029**

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Vaillant, Jean Léon Analytic hyperbolic systems. **98g:35137**

Watzlawek, W. Remarks on analytic solutions of Leray-Volevich-coupled systems. (English summary) **98f:35017**

35G15 Boundary value problems for linear higher-order PDE

Akal, M. (*with* Begehr, Heinrich) On the Pompeiu operator of higher order and applications. (English summary) **98f:35023**

Begehr, Heinrich *see* **Akal, M., 98f:35023**

Burskiĭ, V. P. On boundary value problems for a second-order differential equation with complex coefficients in a plane domain. (Russian. English and Ukrainian summaries) **98g:35040**

Fardigola, L. V. On a nonlocal two-point boundary value problem in a layer for an equation with variable coefficients. (Russian. Russian summary) **98a:35017**

Kirichenko, Yu. V. Correct solvability of a subperiodic boundary value problem in an infinite block. (Russian) (*see* **98d:00009**)

Majewska, Elżbieta (*with* Popiołek, Jan) On the second boundary-value problem for the Airy equation. **98b:35031**

Nguyễn Mạnh Hùng An initial-mixed problem for nonstationary systems in domains with nonregular boundaries. (Russian) **98m:35025**

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Usanetashvili, M. A. Boundary value problems for some classes of degenerating second order partial differential equations. (English and Georgian summaries) **98h:35038**

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Yanushauskas, A. I. Boundary-value problems for second-order equations and for systems of first-order equations. (English summary) **98c:35026**

35G20 General theory of nonlinear higher-order PDE

Kenig, Carlos E. (*with* Staffilani, Gigliola) Local well-posedness for higher order nonlinear dispersive systems. (English summary) **98i:35022**

Staffilani, Gigliola *see* **Kenig, Carlos E., 98i:35022**

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Crandall, Michael G. Viscosity solutions: a primer. **98g:35034**

Fulling, Stephen A. Kernel asymptotics of exotic second-order operators. (English summary) **98c:58168**

Garello, G. Local solvability for semilinear equations with multiple characteristics. **98i:35003**

Leoni, Giovaani Existence of solutions for strongly degenerate differential systems. **98h:34003**

Oliveri, Francesco Linearizable second order Monge-Ampère equations. (English summary) **98m:35007**

Perestyuk, N. A. (*with* Tkach, A. B.) Periodic solutions of a weakly nonlinear system of partial differential equations with impulse action. (Russian. English and Ukrainian summaries) **98j:35014**

Popivanov, Pet″r R. Nonexistence of isolated singularities for nonlinear systems of partial differential equations and some applications. (English summary) **98m:35004**

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Tahara, Hidetoshi Uniqueness of solutions to nonlinear partial differential equations with singular points. (Japanese) (*see* **98f:35006**)

Takači, Djurdjica Nonlinear operator differential equations. (*see* **98i:00027**)

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Items with secondary classifications in 35G25

Chen, Guowang (*with* Xing, Jia Sheng; Yang, Zhi Jian^2) Cauchy problem for generalized IMBq equation with several variables. **98a:35114**

Shi, Wei Hui (*with* Tang, Yi Ming) A numerical invariant of unstable nonlinear partial differential equations. (Chinese. English and Chinese summaries) **98d:35021**

Tang, Yi Ming *see* **Shi, Wei Hui**, **98d:35021**

Xing, Jia Sheng *see* **Chen, Guowang; et al.**, **98a:35114**

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35G30 Boundary value problems for nonlinear higher-order PDE

Brüning, Erwin A. K. Eigenvalue problems for global quasilinear partial differential operators. (English summary) **98f:35024**

Gourdin, Daniel (*with* Mechab, M.) Problème de Goursat non linéaire dans les espaces de Gevrey pour les équations de Kirchhoff généralisées. (English and French summaries) [Nonlinear Goursat problem in Gevrey spaces for generalized Kirchhoff equations] **98g:35041**

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Salmanov, Yu. D. On a nonlinear boundary value problem with degeneration. (Russian) **98i:35023**

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Aldokhina, V. N. Regularity of generalized solutions to the Neumann problem for higher-order equations. (English summary) **98b:35027**

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Bokareva, T. A. On the solvability of the Cauchy problem for a semilinear equation of Sobolev type with respect to a sectorial operator. (Russian. Russian summary) **98b:34080**

35H05 Hypoelliptic equations and systems [see also 58Gxx]

Beals, Richard (*with* Gaveau, Bernard; Greiner, Peter C.) Subelliptic geometry and fundamental solutions. (English summary) **98f:35025**

— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. I. **98b:35032a**

— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. II. **98b:35032b**

— (*with* Gaveau, Bernard; Greiner, Peter C.) Complex Hamiltonian mechanics and parametrices for subelliptic Laplacians. III. **98b:35032c**

— (*with* Gaveau, Bernard; Greiner, Peter C.) Subelliptic geometry. (English summary) **98m:35026**

Bergamasco, Adalberto P. (*with* Caetano, Paulo A. S.; Kondo, Cezar I.) Global hypoellipticity and global solvability for a class of operators on compact manifolds. (English summary) **98m:35027**

Bove, Antonio (*with* Tartakoff, David S.) Optimal non-isotropic Gevrey exponents for sums of squares of vector fields. (English summary) **98f:35026**

Buzano, Ernesto Weyl formula for globally hypoelliptic operators in $\mathbf{R}^n$. **98i:35024**

Caetano, Paulo A. S. *see* **Bergamasco, Adalberto P.; et al.**, **98m:35027**

Capogna, Luca (*with* Danielli, Donatella; Garofalo, Nicola) Subelliptic mollifiers and a basic pointwise estimate of Poincaré type. **98i:35025**

Chemin, Jean-Yves (*with* Xu, Chao Jiang) Inclusions de Sobolev en calcul de Weyl-Hörmander et champs de vecteurs sous-elliptiques. (English and French summaries) [Sobolev embeddings in Weyl-Hörmander calculus and subelliptic vector fields] **98i:35026**

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Geng, D. *see* **Tso, Kaising**, **98i:35029**

Gramchev, Todor (*with* Popivanov, Pet$^{\prime}$r R.; Yoshino, Masafumi) Critical Gevrey index for hypoellipticity of parabolic operators and Newton polygons. (English summary) **98c:35029**

Greiner, Peter C. *see* **Beals, Richard; et al.**, **98b:35032a**; **98b:35032b**; **98b:35032c**; **98f:35025** *and* **98m:35026**

Hanges, Nicholas (*with* Himonas, A. Alexandrou) Non-analytic hypoellipticity in the presence of symplecticity. (English summary) **98d:35031**

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Kondo, Cezar I. *see* **Bergamasco, Adalberto P.; et al.**, **98m:35027**

Lu, Guozhen (*with* Wei, Juncheng) On positive entire solutions to the Yamabe-type problem on the Heisenberg and stratified groups. (English summary) **98k:35023**

Markina, I. G. (*with* Vodop$^{\prime}$yanov, S. K.) Fundamentals of the nonlinear potential theory for subelliptic equations. I. (English summary) **98i:35028**

Müller, Detlef Horst (*with* Peloso, Marco M.; Ricci, Fulvio) On the solvability of homogeneous left-invariant differential operators on the Heisenberg group. (English summary) **98k:35024**

Nedeljkov, Marko (*with* Pilipović, Stevan) Hypoelliptic differential operators with generalized constant coefficients. (English summary) **98m:35028**

Niu, Peng Cheng (*with* Zhang, Ji Hui) The eigenvalue problem for invariant differential operators on the Heisenberg group. (Chinese. English and Chinese summaries)

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Reissig, Michael (*with* Yagdzhyan, K. A.) On the Stokes matrix for a family of infinitely degenerate operators of second order. **98k:35025**

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Sakurai, Tsutomu Analytic hypoellipticity and local solvability for a class of pseudo-differential operators with symplectic characteristics. **98e:35037**

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Xu, Chao Jiang (*with* Zuily, Claude) Higher interior regularity for quasilinear subelliptic systems. **98e:35039**

— *see also* **Chemin, Jean-Yves**, **98i:35026**

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Zhang, Zhenqiu A restriction theorem associated with the generalized sub-Laplacian. (English summary) **98j:35030**

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Calanchi, Marta (*with* Rodino, Luigi; Nguyen Minh Tri) Solutions of logarithmic type for elliptic and hypoelliptic equations. (English and Italian summaries) **98h:35049**

Cancelier, Claudy (*with* Franchi, Bruno) Subelliptic estimates for a class of degenerate elliptic integro-differential operators. (English summary) **98d:35086**

Capogna, Luca Regularity of quasi-linear equations in the Heisenberg group. (English summary) **98k:22037**

Chen, So-Chin Global analytic hypoellipticity of $\Box_b$ on circular domains. (English summary) **98d:32024**

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Derridj, Makhlouf La sous-ellipticité pour le problème $\overline{\partial}$-Neumann dans un domaine pseudoconvexe de $\mathbf{C}^n$ (d'après D. Catlin). (French summary) [Subellipticity of the $\overline{\partial}$-Neumann problem in a pseudoconvex domain in $\mathbf{C}^n$ (after D. Catlin)] **98d:35160**

Dickinson, Detta (*with* Gramchev, Todor; Yoshino, Masafumi) First order pseudodifferential operators on the torus: normal forms, Diophantine phenomena and global hypoellipticity. (English summary) **98k:58221**

ter Elst, A. F. M. (*with* Robinson, Derek W.) Subcoercivity and subelliptic operators on Lie groups. I. Free nilpotent groups. (English summary) **98c:22006**

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Franchi, Bruno (*with* Wheeden, Richard L.) Compensation couples and isoperimetric estimates for vector fields. **98g:46042**

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Liess, Otto (*with* Rodino, Luigi) Linear partial differential equations with multiple involutive characteristics. **98e:35034**

Liu, Wan Quan (*with* Sreeram, V.) A new characterization on stability bounds for singularly perturbed systems. (English summary) **98b:34069**

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Sikora, Adam On-diagonal estimates on Schrödinger semigroup kernels and reduced heat kernels. (English summary) **98k:58213**

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Straube, Emil J. Plurisubharmonic functions and subellipticity of the $\overline{\partial}$-Neumann problem on non-smooth domains. **98m:32024**

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Zienkiewicz, Jacek Initial value problem for the time dependent Schrödinger equation on the Heisenberg group. (English summary) **98c:22012**

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Wang, Xuefeng (*with* Zeng, Bin) On concentration of positive bound states of nonlinear Schrödinger equations with competing potential functions. (English summary) **98e:81032**

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Weder, Ricardo A time-dependent method for inverse scattering. (English summary) (*see* **98e:35001**)

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35J15 General theory of second-order, elliptic equations

Abd El-Rady, A. S. On asymptotic properties in a neighbourhood of infinity of solutions of elliptic equations. (English summary) (*see* **98b:00027**)

Alliot, Frédéric (*with* Amrouche, Chérif) Problème de Stokes dans $\mathbf{R}^n$ et espaces de Sobolev avec poids. (English and French summaries) [Stokes problem in $\mathbf{R}^n$ and weighted Sobolev spaces] **98j:35039**

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Angeletti, Jean-Marc (*with* Mazet, Sylvain; Tchamitchian, Philippe) Analysis of second order elliptic operators without boundary conditions and with VMO or Hölderian coefficients. (English summary) **98i:35035**

Brusentsev, A. G. On the essential selfadjointness of second-order semibounded elliptic operators that are not subject to the condition of the completeness of the Riemannian manifold. (Russian. English, Russian and Ukrainian summaries) **98k:35033**

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Ibragimov, A. I. (*with* Landis, E. M.) Zaremba's problem for elliptic equations in the neighbourhood of a singular point or at infinity. (English summary) **98m:35035**

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Ambrosio, Luigi (*with* Pallara, Diego) Partial regularity of free discontinuity sets. I. **98j:49050**

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Ancona, Alano First eigenvalues and comparison of Green's functions for elliptic operators on manifolds or domains. (English summary) **98i:58212**

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ter Elst, A. F. M. (*with* Robinson, Derek W.) Second-order strongly elliptic operators on Lie groups with Hölder continuous coefficients. (English summary) **98i:22014**

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35J20 Variational methods for second-order, elliptic equations

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Boncuţ, Mioara (*with* Brădeanu, P.) Une formulation variationnelle duale pour un problème Dirichet-Neumann de conduction de la chaleur. [A dual variational formulation of a Dirichlet-Neumann problem of heat conduction]
Bouchitté, Guy (*with* Buttazzo, Giuseppe; Seppecher, Pierre) Energies with respect to a measure and applications to low-dimensional structures. (English summary) **98a:35022**
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Calsina Ballesta, Àngel (*with* Solà-Morales, Joan; València, Marta) Bounded solutions of some nonlinear elliptic equations in cylindrical domains. (English summary) **98k:35037**
Chambolle, Antonin (*with* Doveri, Francesco) Continuity of Neumann linear elliptic problems on varying two-dimensional bounded open sets. (English summary) **98c:35033**
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Bandle, Catherine (*with* Flucher, M.) Applications of harmonic transplantation to variational problems. **98c:31007**
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35J25 Boundary value problems for second-order, elliptic equations

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Arbuzov, È. V. (*with* Bukhgeĭm, A. L.) The Cauchy problem for A-harmonic functions. (Russian) **98j:35043**
Baderko, Elena A. Some Schauder estimates. (*see* **98i:00036**)
Bañuelos, Rodrigo (*with* van den Berg, M.) Dirichlet eigenfunctions for horn-shaped regions and Laplacians on cross sections. **98f:35034**
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Campanato, Sergio Current formulation of the theory of near operators and current definition of elliptic operator. (Italian. English summary) **98k:35038**
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Friedman, Avner (*with* Hu, Bei; Liu, Yong) A boundary value problem for the Poisson equation with multi-scale oscillating boundary. (English summary) **98j:35045**
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Mugnai, Dimitri (*with* Talenti, Giorgio) Estimating the resolvent of elliptic second-order partial differential operators. (English summary) **98m:35042**
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Castro Barbero, Carlos (*with* Zuazua, Enrique) Une remarque sur l'analyse asymptotique spectrale en homogénéisation. (English and French summaries) [A remark on spectral asymptotic analysis in homogenization] **98f:35010**

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Rukavishnikov, V. A. On the Dirichlet problem for a second-order elliptic equation with noncoordinated degeneration of the initial data. (Russian. Russian summary) **98b:35073**
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Xiang, Yang[2] Existence of viscosity solutions to nonlinear degenerate elliptic equations in $\mathbf{R}^n$. (Chinese. English and Chinese summaries) **98h:35087**
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Zhao, Bin[2] (*with* Chen, Qing Yi) Radial solutions of degenerate nonlinear elliptic equations. (Chinese. English and Chinese summaries) **98b:35074**

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Amirov, A. Kh. (*with* Yildiz, M.) Inverse problem for the equation $Lu \equiv x\Delta u + k(x,^{\backprime}y)u_x = xf(x,^{\backprime}y)$. **98d:35232**
Arai, Hitoshi Degenerate elliptic operators, H^1 spaces and diffusions on strongly pseudoconvex domains. (English summary) **98e:32008**
Betta, M. F. Estimates for solutions of nonlinear degenerate elliptic equations. (English summary) **98k:35065**
Chemin, Jean-Yves (*with* Xu, Chao Jiang) Inclusions de Sobolev en calcul de Weyl-Hörmander et champs de vecteurs sous-elliptiques. (English and French summaries) [Sobolev embeddings in Weyl-Hörmander calculus and subelliptic vector fields] **98i:35026**
Chen, Hongwei On a singular nonlinear elliptic equation. **98d:35071**
Drábek, Pavel (*with* Kufner, Alois; Nicolosi, Francesco) ★ Quasilinear elliptic equations with degenerations and singularities. (English summary) **98k:35068**
— (*with* Pokhozhaev, Stanislav Ivanovich) Positive solutions for the p-Laplacian: application of the fibering method. (English summary) **98h:35061**
Dzhuraev, T. D. (*with* Kadyrov, R. R.) On the behavior at infinity of the solution of nonlocal boundary value problems for elliptic-parabolic equations. (Russian. English and Uzbek summaries) **98d:35158**
Franchi, Bruno (*with* Serapioni, Raul; Serra Cassano, Francesco) Approximation and imbedding theorems for weighted Sobolev spaces associated with Lipschitz continuous vector fields. (Italian summary) **98c:46062**
Gao, Hang A class of control problems with coefficients of degenerate elliptic equations as control variables. (Chinese. English and Chinese summaries) **98f:49024**
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Gianazza, Ugo (*with* Vespri, Vincenzo) Generation of analytic semigroups by degenerate elliptic operators. (English summary) **98d:47101**
Guan, Pengfei C^2 a priori estimates for degenerate Monge-Ampère equations. **98d:35074**
Jin, Zhiren Solutions for a class of singular semilinear elliptic equations. **98k:35073**
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— *see also* **Dzhuraev, T. D.**, **98d:35158**
Kozlov, Vladimir Arkad'evich (*with* Maz'ya, Vladimir G.) On "power-logarithmic" solutions of the Dirichlet problem for elliptic systems in $K_d \times \mathbf{R}^{n-d}$, where K_d is a d-dimensional cone. (English and Italian summaries) **98a:35025**
Kufner, Alois *see* **Drábek, Pavel; et al.**, **98k:35068**
Leoni, Giovanni Existence of solutions for strongly degenerate differential systems. **98k:34003**
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Łysik, Grzegorz (*with* Ziemian, Bogdan) Exact radial asymptotics of solutions to singular elliptic differential equations. (*see* **98c:00013**)
Malý, Jan (*with* Ziemer, William P.) ★ Fine regularity of solutions of elliptic partial differential equations. (English summary) **98h:35080**
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Orochko, Yu. B. Some properties of the deficiency indices of second-order, symmetric degenerate elliptic operators in $L^2(\mathbf{R}^m)$. (Russian. Russian summary) **98k:47096**
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Shishkin, Grigorii I. Grid approximation of singularly perturbed equations with convective terms in the case of mixed boundary conditions. (Russian. Russian summary) **98g:65101**
Skrypnik, Igor'V. (*with* Nicolosi, Francesco) On the regularity of solutions of higher-order degenerate nonlinear elliptic equations. (Russian. English summary) **98k:35059**
Strzelecki, Paweł Quasilinear elliptic systems of Ginsburg-Landau type. **98i:35066**
Taira, Kazuaki (*with* Umezu, Kenichiro) Bifurcation for nonlinear elliptic boundary value problems. III. (English summary) **98i:35067c**
— Bifurcation for nonlinear elliptic boundary value problems. I. (English summary) **98i:35067a**
— (*with* Umezu, Kenichiro) Bifurcation for nonlinear elliptic boundary value problems. II. (English summary) **98i:35067b**
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Usanetashvili, M. A. Boundary value problems for some classes of degenerating second order partial differential equations. (English and Georgian summaries) **98h:35038**
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Wei, Juncheng *see* **Lu, Guozhen**, **98k:35023**
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35J85 Unilateral problems and variational inequalities for elliptic PDE [see also 35R35, 49J40]

Adams, David R. (*with* Nussenzveig Lopes, H. J.) Nonlinear weakly elliptic 2×2 systems of variational inequalities with unilateral obstacle constraints. (English summary) **98m:35075**
Argatov, I. I. (*with* Nazarov, Sergei A.) Asymptotic solution of the Signorini problem with an obstacle on a thin elongated set. (Russian. Russian summary) **98c:35066**

Degiovanni, Marco (*with* Lancelotti, Sergio) Perturbations of critical values in nonsmooth critical point theory. (English summary) **98e:35079**
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Kovalevskiĭ, A. A. (*with* Nicolosi, Francesco) Boundedness of solutions of variational inequalities with nonlinear degenerated elliptic operators of high order. **98k:35080**
Lancelotti, Sergio *see* **Degiovanni, Marco, 98e:35079**
Liang, Xi Ting (*with* Lu, You Wen) Boundedness of solutions to a system of elliptic variational inequalities. (Chinese. English and Chinese summaries) **98d:35088**
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Mastroeni, Loretta (*with* Matzeu, Michele) Parabolic variational inequalities with degenerate elliptic part. (Italian summary) **98m:35076**
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Rumbos, Adolfo J. (*with* Shapiro, Victor L.) One-sided resonance for a quasilinear variational problem. (English summary) **98j:35074**
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Yang, Jianfu Regularity of weak solutions to quasilinear elliptic obstacle problems. (English summary) **98i:35075**
Ziemer, William P. Variational inequalities with degenerate elliptic operators. (*see* **98e:00018**)

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Bobylev, N. A. (*with* Ismailov, I. G.; Korovin, S. K.) Gradient procedures in problems with nonisolated extremals. (Russian) **98m:49014**
Butt, Rizwan Penalty method for variational inequalities. (English summary) **98e:49020**
Cianchi, Andrea Boundedness of solutions to variational problems under general growth conditions. **98k:49052**
Gertenbach, Jan D. Variational inequalities and the positivity of monotone mappings. (English summary) **98i:47060**
Hong, Min-Chun Regularity results for minimizers of certain functionals having non-quadratic growth with obstacles. (English summary) **98e:49093**
Ismailov, I. G. *see* **Bobylev, N. A.; et al., 98m:49014**
Kaplan, A. A. (*with* Tichatschke, Rainer) Prox-regularization and solution of ill-posed elliptic variational inequalities. (English summary) **98b:49009**
Korovin, S. K. *see* **Bobylev, N. A.; et al., 98m:49014**
Le, Vy Khoi (*with* Schmitt, Klaus) Minimization problems for noncoercive functionals subject to constraints. II. (English summary) **98c:46163**
— (*with* Schmitt, Klaus) ★ Global bifurcation in variational inequalities. (English summary) **98e:47101**
Liang, Xi Ting (*with* Wang, Xiangdong) Regularity of solutions to an elliptic variational inequality system. (English summary) **98g:49027**
Marcus, Moshe (*with* Mizel, Victor J.; Pinchover, Yehuda) On the best constant for Hardy's inequality in $\mathbf{R}^n$. (English summary) **98k:26035**
Mizel, Victor J. *see* **Marcus, Moshe; et al., 98k:26035**
Molle, Riccardo (*with* Passaseo, Donato) An elliptic problem with pointwise constraint on the Laplacian. **98m:35036**
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35J99 None of the above, but in this section

Kalyabin, G. A. On two-weight inequalities of gradient-Laplacian type for functions with zero boundary values. (Russian) **98m:35077**

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Abdennadher, Ali (*with* Néel, Marie Christine) Analyticity of the semigroup generated in L^p by the Stokes operator with periodic boundary conditions. (English summary) **98b:47059**
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Berenstein, Carlos A. (*with* Khavinson, Dmitry) Do solid tori have the Pompeiu property?
Boggiatto, Paolo Multi-quasi-elliptic operators and anti-Wick symbols. (English summary) **98i:35221**
Bolik, Jürgen (*with* von Wahl, Wolf) Estimating $\nabla \mathbf{u}$ in terms of div $\mathbf{u}$, curl $\mathbf{u}$, either $(\nu, \mathbf{u})$ or $\nu \times \mathbf{u}$ and the topology. (English summary) **98d:35023**
Bondarenko, B. A. (*with* Karachik, V. V.) Normalized systems of polyharmonic polynomials and their application to the solution of the Riquier problem. (Russian. English, Russian and Uzbek summaries)
Bondarčv, B. V. (*with* Korolev, M. E.) The S. N. Bernstein inequality in the averaging of elliptic systems in periodic random media. (Russian. English and Ukrainian summaries) **98c:35014**
Brenner, A. V. (*with* Shargorodskiĭ, E. M.) Boundary value problems for elliptic pseudodifferential operators. **98k:35217**
Chen, Zizhen (*with* Huan, Zhongdan) On the continuity of the mth root of a continuous nonnegative definite matrix-valued function. (English summary) **98b:15031**
Clain, Stéphane (*with* Touzani, Rachid) A two-dimensional stationary induction heating problem. (English summary) **98g:80003**
Da Prato, Giuseppe Some results on elliptic and parabolic equations in Hilbert spaces. (English and Italian summaries) **98g:35206**
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ter Elst, A. F. M. (*with* Robinson, Derek W.) On Kato's square root problem. (English summary) **98k:47069**
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Garbey, Marc (*with* Kaper, Hans G.) Heterogeneous domain decomposition for singularly perturbed elliptic boundary value problems. (English summary) **98d:65158**
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Gutiérrez, Cristian E. (*with* Segovia, Carlos; Torrea Hernández, José Luis) On higher Riesz transforms for Gaussian measures. (English summary) **98m:42017**
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He, Chun Xiong (*with* Yu, Jian Ning) Explicit fundamental solutions for a class of nonhomogeneous nontransversally elliptic invariant differential operators on the two-step nilpotent Lie group $H_{2n+1} \times \mathbf{R}^{2d}$. (Chinese. English and Chinese summaries) **98m:58127**
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Huang, Sha (*with* Qiao, Yu Ying) A new hypercomplex structure and Clifford analysis. (Chinese. English and Chinese summaries) **98a:30064**
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Kokarev, V. N. On complete convex solutions of the equation $\mathrm{tr}_m(z_{ij}) = 1$. (Russian. English, Russian and Ukrainian summaries) **98j:53022**
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Lanciani, P. Solution d'une équation différentielle non linéaire avec un terme qui explose. (English and Italian summaries) [Solution of a nonlinear differential equation with an exploding term] **98j:34031**
Lapidus, Michel L. Towards a noncommutative fractal geometry? Laplacians and volume measures on fractals. (English summary) **98m:58009**
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Moscariello, Gioconda Weak minima and quasiminima of variational integrals. (Italian summary) **98f:49005**
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Natroshvili, David Boundary integral equation method in the steady state oscillation problems for anisotropic bodies. (English summary) **98a:73024**
Nazarov, Sergei A. (*with* Polyakova, O. R.) Rupture criteria, asymptotic conditions at crack tips, and selfadjoint extensions of the Lamé operator. (Russian) **98i:73049**
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Panasenko, G. P. Method of asymptotic partial decomposition of domain. (English summary) **98m:35014**
Passarelli di Napoli, Antonia (*with* Siepe, Francesco) A regularity result for a class of anisotropic systems. (English and Italian summaries) **98j:49052**
Penkin, O. M. (*with* Pokornyĭ, Yu. V.) On some qualitative properties of equations on a one-dimensional cell complex. (Russian) **98c:34027**
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Schulze, Bert-Wolfgang (*with* Tarkhanov, Nikolai N.) The index of elliptic operators on manifolds with cusps. (English summary) **98g:58164**
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Stepin, S. A. Nonselfadjoint singular perturbations and spectral properties of the Orr-

Sommerfeld boundary value problem. (Russian. Russian summary) **98a:34098**
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Sviridyuk, G. A. (*with* Yakupov, M. M.) The phase space of the initial-boundary value problem for the Oskolkov system. (Russian. Russian summary) **98i:35155**
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Yanushauskas, A. I. On mappings realized by the gradient of the Green function in a polyhedral domain. (Russian) **98f:26011**
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Yu, Wanghui *see* **Ding, Shi Jin; et al., 98b:35179**
Zhang, Ke Wei[2] (*with* Sun, Ya Juan) Paradoxes for stationary Stokes flow past an obstacle. (Chinese. English and Chinese summaries) **98i:35149**
Zhang, Zhong Zhi (*with* Yang, Yu Fei) A class of solution methods for right-hand side optimal control problems for elliptic equations. (Chinese. English and Chinese summaries) **98j:49042**
Zhou, Detang Laplace inequalities with geometric applications. **98b:53051**

35Kxx Parabolic equations and systems [see also 35Bxx, 35Dxx, 35R30, 35R35, 58G11]

Lumer, Günter Singular transitions and interactions governed by equations of parabolic type. **98f:35061**

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Lieberman, Gary M. ★ Second order parabolic differential equations. **98k:35003**

35K05 Heat equation

Abdel'razak, N. A. The method of dual summatory equations for solving two-dimensional axisymmetric problems of nonstationary heat conduction using the example of heat exchange on a semibounded solid cylinder. (Russian. English and Russian summaries)
Bañuelos, Rodrigo (*with* Kröger, Pawel) Isoperimetric-type bounds for solutions of the heat equation. (English summary) **98k:35081**
Barnovska, M. (*with* Govorov, V. M.) An integral estimate for a generalized solution, in the class L_2, of the first boundary value problem for the heat equation. (Russian. English summary) **98m:35078**
Bobisud, L. E. (*with* Do, Tae S.) A nonlocal heat conduction problem. (English summary)
Chamberland, Marc (*with* Siegel, David) Convex domains with stationary hot spots. (English summary) **98g:35083**
Chaves, Manuela (*with* Vazquez, Juan L.; Walias Cuadrado, Magdalena) Optimal existence and uniqueness in a nonlinear diffusion-absorption equation with critical exponents. (English summary) **98i:35076**
Chung, Soon-Yeong A regularity theorem for the initial traces of the solutions of the heat equation. **98k:35082**
Day, W. A. A note on the propagation of temperature disturbances.
Do, Tae S. *see* **Bobisud, L. E.**
Fusco, Giorgio (*with* Verduyn Lunel, Sjoerd M.) Order structures and the heat equation. (English summary) **98j:35075**
Govorov, V. M. *see* **Barnovska, M., 98m:35078**
Herzog, Gerd On a universality of the heat equation. (English summary) **98i:35077**
Khudaĭgulyev, B. A. The heat equation with a singular potential. (Russian. Russian summary) **98k:35083**
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Mocică, Gheorghe A method for solving equations of parabolic type. (English summary) **98i:35078**
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Ôeda, Kazuo Remarks on the periodic solution of the heat convection equation in a perturbed annulus domain. **98d:35089**
Olmstead, W. E. (*with* Roberts, Catherine A.) The one-dimensional heat equation with a nonlocal initial condition. (English summary)
Quintanilla, Ramón Spatial bounds and growth estimates for the heat equation with three relaxation times. (English summary) **98f:35062**
Rial, D. F. (*with* Rossi, Julio D.) Blow-up results and localization of blow-up points in an N-dimensional smooth domain. **98i:35079**
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Suzuki, Noriaki A local Hopf lemma for solutions of the one-dimensional heat equation. (English summary) **98g:35084**
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Yildiz, Bünyamin Stability of the solution of backward heat equation on a weak compactum. (English and Turkish summaries)

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Bakry, Dominique (*with* Qian, Zhongmin) On Harnack estimates for positive solutions of the heat equation on a complete manifold. (English and French summaries) **98g:58165**
Benth, Fred Espen On the positivity of the stochastic heat equation. (English summary) **98f:60119**
Boncuţ, Mioara (*with* Brădeanu, P.) Une formulation variationnelle duale pour un problème Dirichet-Neumann de conduction de la chaleur. [A dual variational formulation of a Dirichlet-Neumann problem of heat conduction]
Brădeanu, P. *see* **Boncuţ, Mioara**
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Chung, Soon-Yeong Uniqueness in the Cauchy problem for the heat equation. (English summary) (*see* **98b:00027**)
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Dặng Đình Áng (*with* Pham Ngoc Dinh, A.; Dinh Ngoc Thanh) A bidimensional inverse Stefan problem: identification of boundary value. (English summary) **98g:35221**
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Fukuda, Isamu Regional blow-up for nonlinear degenerate parabolic equations. (*see* **98i:00032**)
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— *see also* **Coulhon, Thierry, 98e:58159**
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Guiotto, Paolo Non-differentiability of heat semigroups in infinite-dimensional Hilbert spaces. (English summary) **98f:35154**
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— ★ Models of phase transitions. (English summary) **98a:80006**
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35K10 General theory of second-order, parabolic equations

Amosov, A. A. (*with* Zlotnik, A. A.) On properties of generalized solutions of one-dimensional linear parabolic problems with nonsmooth coefficients. (Russian. Russian summary) **98j:35077**
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Denisov, V. N. On stabilization of solutions of the Cauchy problem for parabolic equations. (*see* **98i:00027**)
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Gordeziani, D. (*with* Grigalashvili, Z.) Non-local problems in time for some equations of mathematical physics. (Russian and Georgian summaries) **98a:35050**
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Haraux, Alain A remark on parabolic equations. (English and French summaries) **98g:35086**
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Hu, Bei (*with* Yin, Hong-Ming) The DeGiorgi-Nash-Moser type of estimate for parabolic Volterra integrodifferential equations. (English summary) **98a:35051**
Kuzin, S. Yu. On the behavior of the solution of the first boundary value problem for a parabolic equation with singular coefficients for large time values. (Russian. Russian summary) **98a:35052**
Lelikova, E. F. On the asymptotic behavior of the fundamental solution of a second-order parabolic equation. (Russian. English and Russian summaries) **98g:35087**
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Nishio, Masaharu Capacity associated with an α-parabolic operator. (English summary) **98j:35078**
Norris, J. R. Long-time behaviour of heat flow: global estimates and exact asymptotics. (English summary) **98k:35085**
Reut, Z. On the solution of the diffusion equation. (English summary)
Scherzer, Otmar Stable evaluation of differential operators and linear and nonlinear multi-scale filtering. (English summary) **98d:35090**
Sheveleva, V. N. On the smoothness of basic parabolic potentials in a domain that is infinite with respect to "time". (Russian)
Wang, Zi Kun[1] *see* **Zhao, Xue Lei, 98c:35068**
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Zhang, Qi S. On a parabolic equation with a singular lower order term. II. The Gaussian bounds. (English summary) **98m:35079**
— Gaussian bounds for the fundamental solutions of $\nabla(A\nabla u) + B\nabla u - u_t = 0$. (English summary) **98c:35067**
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Clark, G. W. (*with* Packer, L. A.) Two-scale homogenization of implicit degenerate evolution equations. **98i:35014**
Elayyan, Alaeddin (*with* Isakov, Victor) On uniqueness of recovery of the discontinuous conductivity coefficient of a parabolic equation. (English summary) **98a:35140**
Fannjiang, Albert (*with* Papanicolaou, George C.) Diffusion in turbulence. (English summary) **98d:60156**
Fichera, Gaetano Asymptotic behaviour of solutions of evolution problems. **98d:34096**
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Gasanov, A. I. Coefficient stability and existence of a quasisolution of an inverse parabolic problem. (English summary) **98k:35204**
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Ham, Yoon Mee The limiting problem in a double free boundary problem. (English summary) (*see* **98b:00027**)
Hashimoto, Yasuji (*with* Manabe, Shojiro; Ogura, Yukio) Short time asymptotics and an approximation for the heat kernel of a singular diffusion. **98k:60129**
Isakov, Victor *see* **Elayyan, Alaeddin, 98a:35140**
Kleptsyna, M. L. (*with* Pyatnitskiĭ, A. L.) Homogenization of random parabolic operators. (English summary) **98f:35013**
Klibanov, Michael V. (*with* Lucas, T. R.; Frank, Robert) A fast and accurate imaging algorithm in optical/diffusion tomography. (English summary) **98h:35234**
Kostin, A. B. Stability of solutions of inverse coefficient problems for parabolic equations. (Russian. Russian summary)
— (*with* Prilepko, A. I.) On some problems of the reconstruction of a boundary condition for a parabolic equation. II. (Russian. Russian summary) **98i:35207**
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— (*with* Vespri, Vincenzo) Optimal L^∞ and Schauder estimates for elliptic and parabolic operators with unbounded coefficients. **98k:35035**
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Shih, Shagi-Di A novel uniform expansion for a singularly perturbed parabolic problem with corner singularity. (English summary) **98c:35011**
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Xie, Sheng Li (*with* Liu, Yong Qing) Oscillation of logistic delay systems with diffusion, constant predation and feedback control. (Chinese. English and Chinese summaries) **98b:35218**

Yang, Jun (*with* Guan, Xin Ping; Liu, Shu Tang[2]; Cheng, Ying Jie) Oscillation of solutions to boundary value problems for a class of neutral parabolic equations. (Chinese. English and Chinese summaries) **98d:35230**

Zhikov, Vasilii V. Diffusion in an incompressible random flow. (Russian. Russian summary) **98e:35180**

35K15 Initial value problems for second-order, parabolic equations

Alaa, N. Solutions faibles d'équations paraboliques quasilinéaires avec données initiales mesures. (English and French summaries) [Weak solutions of quasilinear parabolic equations with measures as initial data] **98a:35053**

Aleksandrova, I. A. The spectral method in asymptotic diffusion problems with drift. (Russian) **98e:35080**

Chung, Soon-Yeong Uniqueness in the Cauchy problem for the heat equation. (English summary) (*see* **98b:00027**)

Èĭdel'man, S. D. *see* **Porper, F. O., 98k:35086**

Hieber, Matthias (*with* Koch-Medina, Pablo; Merino, Sandro) Linear and semilinear parabolic equations on $\mathrm{BUC}(\mathbf{R}^N)$. **98a:35054**

Koch-Medina, Pablo *see* **Hieber, Matthias; et al., 98a:35054**

Korten, M. K. Uniqueness for the Cauchy problem with measures as data for $u_t + [=]\Delta(u-1)$, under optimal conditions of regularity and growth. **98b:35089**

Merino, Sandro *see* **Hieber, Matthias; et al., 98a:35054**

Porper, F. O. (*with* Èĭdel'man, S. D.) Theorems on the asymptotic proximity of fundamental solutions of parabolic equations. (Russian) **98k:35086**

Potemkina, E. V. Peaking regimes in the Cauchy problem for the inhomogeneous heat equation. (Russian) **98b:35076**

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El-Fiky, Ahmed On the Cauchy problem for a degenerate parabolic differential equation. (English summary) **98b:35103**

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Lunardi, Alessandra An interpolation method to characterize domains of generators of semigroups. (English summary) **98a:47040**

Smoczyk, Knut Harnack inequalities for curvature flows depending on mean curvature. (English summary) **98i:53056**

Watanabe, Michiaki (*with* Watanabe, Shuji) The explicit solution of a diffusion equation with singularity. (English summary) **98d:35119**

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35K20 Boundary value problems for second-order, parabolic equations

Akhmedov, Kh. Kh. Formulations of boundary value problems for parabolic equations with changing time direction. (Russian) (*see* **98b:00016**)

Amonov, B. K. Uniqueness and estimation of the stability of the solution of equations of parabolic type with data on the set of points and on the lateral surface of a cylinder. (Russian. Russian summary) (*see* **98e:00010**)

Baderko, Elena A. Parabolic problems and boundary integral equations. (English summary) **98a:35055**

Bagyrov, Sh. G. On the existence of a positive solution of second-order parabolic equations with time-periodic coefficients. (Russian)

Godoy, T. (*with* Lami Dozo, E.; Paczka, S.) The periodic parabolic eigenvalue problem with L^∞ weight. (English summary) **98m:35080**

Kartashov, È. M. The method of Green functions in solving boundary value problems for equations of parabolic type in noncylindrical domains. (Russian) **98c:35069**

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Luo, Yousong The heat conduction in a medium enclosed by a thin shell of higher diffusivity. (English summary) (*see* **98c:00013**)

Luśtyk, Mirosław Green function and the first Fourier problem for some linear heat equation. (English and Polish summaries) **98c:35070**

Mierczyński, Janusz Globally positive solutions of linear parabolic PDEs of second order with Robin boundary conditions. **98c:35071**

Milewski, Jan Green function and the periodic solution of the parabolic problem in n-dimensional infinite strip with Dirichlet boundary data. (Polish summary) **98f:35063**

— The limit parabolic problem for trapezium with the boundary conditions of the third kind. (Polish summary) **98f:35064**

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Nyström, Kaj The Dirichlet problem for second order parabolic operators. (English summary) **98k:35087**

Paczka, S. A Neumann-periodic parabolic eigenvalue problem with continuous weight. (English summary) **98k:35088**

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Savaré, Giuseppe Some remarks on Cauchy problem for parabolic equations with Dirichlet boundary condition. (Italian summary) **98m:35081**

— Parabolic problems with mixed variable lateral conditions: an abstract approach. (English summary) **98h:35090**

Sheveleva, V. N. Boundary integral operators for parabolic equations with discontinuous coefficients. (*see* **98i:00036**)

Taira, Kazuaki On the existence of Feller semigroups with boundary conditions. III. (English summary) **98e:35081**

Watanabe, Hisako The initial-boundary value problems for the heat operator in non-cylindrical domains. **98g:35088**

Watanabe, Kinji Remarques sur l'ensemble de zéro d'une solution d'une équation parabolique en dimension d'espace 1. [Remarks on the zero-set of the solution of a parabolic equation in one space dimension] **98i:35080**

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Altomare, Francesco On some sequences of positive linear operators on unbounded intervals. **98k:41040**

Anderson, Jeffrey R. Global solvability of nonlinear diffusion equations with forcing at the boundary. (English summary) **98c:35091**

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Cao, Yanzhao (*with* Gunzburger, Max D.; Turner, James C., Jr.) The controllability of systems governed by parabolic differential equations. (English summary) **98j:93053**

Danilov, V. G. *see* **Omel'yanov, G. A.; et al., 98d:35243** *and* **98m:35230**

DiBenedetto, E. (*with* Diller, D. J.) On the rate of drying of gelatin in a photographic film. **98a:35076**

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Escher, Joachim (*with* Simonett, Gieri) Classical solutions of multidimensional Hele-Shaw models. (English summary) **98i:35213**

Gunzburger, Max D. *see* **Cao, Yanzhao; et al., 98j:93053**

Holmbom, Anders Homogenization of parabolic equations: an alternative approach and some corrector-type results. (English summary) **98m:35016**

Itaya, Nobutoshi (*with* Kobayashi, Yasumaro) The Dirichlet problem for a certain degenerate parabolic equation. (English summary) **98j:35111**

Kato, Yoshio Free boundary problems for the heat equation and application to a Bingham flow. **98m:35229**

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Maghnouji, Abderrahman (*with* Nicaise, Serge) Coefficients of the singularities of elliptic and parabolic problems in domains with edges. (English summary) **98i:35007**

Mikulevičius, Remigius (*with* Pragarauskas, H.) Nonlinear potentials of the Cauchy-Dirichlet problem for the Bellman integro-differential equation. (Russian. Lithuanian summary) **98a:35134**

Mitropol'skiĭ, Yurii Alekseevich (*with* Berezovskiĭ, A. A.; Shkhanukov, M. Kh.) Nonlinear nonlocal problems for a parabolic equation in a two-dimensional domain. (Russian. English and Ukrainian summaries) **98j:35106**

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— (*with* Radkevich, E. V.; Danilov, V. G.) "Stabilization" of the solution of a phase field system. (Russian. Russian summary) **98m:35230**

Pieniążek, Alicja Contact problem for three curvilinear layers. **98c:35169**

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Savateev, E. G. On the problem of determining the source function and the coefficient of a parabolic equation. (Russian) **98i:35212**

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Taira, Kazuaki Oscillation of delay parabolic boundary value problems. **98j:35181**

— Feller semigroups and Markov processes. (English and Portuguese summaries) **98j:47093**

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35K22 Evolution equations (any order in the spatial derivatives) [see also 58D25]

Di Blasio, Gabriella Parabolic Volterra integrodifferential equations with noncontinuous data. (English summary) **98f:35066**

Hu, Chang Bing (*with* Li, Kaitai) A simple construction of inertial manifolds under time discretization. (English summary) **98h:35091**

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Gil, Michael On exponential stability of nonlinear nonautonomous evolution equations. (English summary) **98h:34110**

Hale, Jack K. Attracting manifolds for evolutionary equations. **98i:34087**

Lerner, Nicolas Coherent states and evolution equations. **98a:35151**

Vishik, Mark Iosifovich Large evolution equations and their trajectory attractors. (*see* **98i:00036**)

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Nishio, Masaharu (*with* Shimomura, Katsunori; Suzuki, Noriaki) A general form of a mean value property for poly-temperatures on a strip domain. (English summary) **98j:35079**

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Accetta, Gabriele (*with* Orsingher, Enzo) Asymptotic expansion of fundamental solutions of higher order heat equations. (English summary) **98h:35092**
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– (*with* Maugeri, Antonino) Differentiability for nonlinear parabolic systems. (English summary) (*see* **98b:00027**)
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"The two-velocity dynamical system: boundary control of waves and inverse problems" Erratum to: "The two-velocity dynamical system: boundary control of waves and inverse problems" [Wave Motion **25** (1997), no. 1, 83–107; MR 98g:73015a] by M. Belishev, A. Blagoveshchenskiĭ and S. A. Ivanov. **98g:73015b**

35L10 General theory of second-order, hyperbolic equations

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Asmolik, V. A. On a class of locally one-dimensional schemes for solving second-order multidimensional hyperbolic equations of arbitrary dimension. (Russian. Russian summary) **98j:65055**
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35L15 Initial value problems for second-order, hyperbolic equations

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MacCamy, Richard C. Low frequency expansions for two-dimensional interface scattering problems. (English summary) **98k:35113**
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Blashchak, N. I. On periodic solutions of second-order differential equations of hyperbolic type. (Ukrainian. English summary) **98m:35120**
Botyuk, A. O. Exact solution of a periodic boundary value problem. (Ukrainian. English and Ukrainian summaries)
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Choi, Jong Bae *see* **Jeon, Jong Duek; et al., 98c:35103**
Domingos Cavalcanti, V. N. Behaviour near the boundary for solutions of elasticity systems. (English summary) **98h:35030**
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Jeon, Jong Duek (*with* Khe Kan Cher; Park, Ji Hyun; Jeon, Yong Hee; Choi, Jong Bae) Protter's conjugate boundary value problems for the two-dimensional wave equation. **98c:35103**
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Kim, Jinsoo (*with* Sheen, Dongwoo) Regularity of solutions to Helmholtz-type problems with absorbing boundary conditions in nonsmooth domains. **98b:35036**
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Kreith, K. Mixed selfadjoint boundary conditions for the wave equation. (*see* **98e:00018**)
Lebeau, Gilles Propagation des ondes dans les variétés à coins. (English and French summaries) [Wave propagation in manifolds with corners] **98d:58183**
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Shirikyan, Armen R. (*with* Volevich, Leonid R.) Équations linéaires hyperboliques d'ordre supérieur. Solutions bornées et presque-périodiques en temps. (English and French summaries) [Higher-order hyperbolic linear equations. Bounded and almost-periodic-in-time solutions] **98d:35127**
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Shakhbagyan, R. L. (*with* El-Saidi, Mohammed A.) A control problem for higher-order evolution equations. (Russian. English and Russian summaries) **98c:49010**
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Ptashnik, Bogdan Ĭosipovich (*with* Silyuga, L. P.) A multipoint problem for typeless systems of differential equations with constant coefficients. (Ukrainian. English and Ukrainian summaries) **98m:35022**
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Roitberg, Yakov A. Boundary and mixed problems for general hyperbolic systems. (Russian) **98i:35118**
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Turdubaev, S. K. Inverse problems for first-order hyperbolic systems. (Russian. Russian summary) (*see* **98e:00010**)
Vagabov, A. I. The generalized Fourier method for solving a mixed problem for hyperbolic systems. (Russian) **98e:35028**
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Tonadera, Faustin Condition suffisante de résolubilité du problème de Cauchy matriciel C^∞ non caractéristique à caractéristiques de multiplicité variable. (English and French summaries) [Sufficient condition for the solvability of the noncharacteristic C^∞ matrix Cauchy problem with characteristics of variable multiplicity] **98d:35128**

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35L55 Hyperbolic systems of higher-order PDE

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Vakman, David Analytic waves. (English summary) **98b:35198**

35L60 Nonlinear first-order PDE of hyperbolic type

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Alinhac, S. Explosion de solutions d'équations d'ondes quasi-linéaires en plusieurs dimensions d'espace. [Blow-up of solutions of quasilinear wave equations in several space dimensions] (*see* **98i:35001**)
Azevedo, Arthur V. (*with* Marchesin, Dan; Plohr, Bradley J.; Zumbrun, Kevin) Nonuniqueness of solutions of Riemann problems. (English summary) **98f:35091**
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Ding, Xia Xi Some results on nonlinear evolution equations. (*see* **98d:35003**)
Donato, Andrea (*with* Oliveri, Francesco) Exceptionality condition and linearization of hyperbolic equations. **98j:35115**
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Fusco, D. (*with* Manganaro, N.) A method for finding exact solutions to hyperbolic systems of first-order PDEs. (English summary) **98g:35138**
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Huang, Jinyang Large time step Glimm's and Godunov's schemes and their entropy consistency. (English summary) (*see* **98d:35003**)
Il'in, A. M. (*with* Neudachin, D. I.) On the influence of small dissipation on weakly discontinuous solutions of a hyperbolic system. (Russian)
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— Global regularity and breakdown of nonlinear hyperbolic waves. (English summary) (*see* **98h:00031**)
— (*with* Zhou, Yi; Kong, De-Xing) Global classical solutions for general quasilinear hyperbolic systems with decay initial data. **98a:35082**
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— *see also* **Mascia, Corrado, 98d:35134** *and* **Hanouzet, B., (98d:35003)**
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Bereux, François (*with* Sainsaulieu, Lionel) A Roe-type Riemann solver for hyperbolic systems with relaxation based on time-dependent wave decomposition. (English summary) **98d:65108**

Bigun, Ya. I. Existence, uniqueness and continuous dependence on a parameter of the solution of functional-differential equations with ordinary and partial derivatives. (Ukrainian. English and Ukrainian summaries) **98h:35228**

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Bürger, Raimund (*with* Wendland, Wolfgang L.) Existence, uniqueness, and stability of generalized solutions of an initial-boundary value problem for a degenerating quasilinear parabolic equation. **98k:35104**

Chen, Ming[2] (*with* Qiu, Qing Jiu) The formal theory for the reflection of sound waves. (English and Chinese summaries) **98g:35165**

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Rosakis, Phoebus (*with* Knowles, James K.) Unstable kinetic relations and the dynamics of solid-solid phase transitions. (English summary) **98i:73015**

Rykov, Yu. G. The Cauchy problem for some models of one-dimensional gas dynamics. (Russian) **98b:76062**

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35L65 Conservation laws

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Amadori, Debora (*with* Colombo, Rinaldo M.) Continuous dependence for 2×2 conservation laws with boundary. **98g:35140**

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Bressan, Alberto Viscosity solutions and uniqueness for systems of conservation laws. **98d:35137**

— (*with* LeFloch, Philippe G.) Uniqueness of weak solutions to systems of conservation laws. (English summary) **98m:35125**

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— The propagation of the analytic regularity in nonlinear hyperbolic equations with constant multiplicity. **98h:35172**
— (*with* Zanghirati, Luisa) Analytic regularity for solutions of nonlinear weakly hyperbolic equations. (Italian summary) **98k:35136**
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35L80 Hyperbolic PDE of degenerate type

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Kharibegashvili, S. On the solvability of the multidimensional version of the first Darboux problem for a model second-order degenerating hyperbolic equation. (English summary) **98h:35175**
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Bentrad, A. On singular solutions of a second order operator with meromorphic coefficients in $\mathbb{C}^2$. (English summary)
Dernek, Neşe On the solution of the E.P.D. equation using finite integral transformations. (English and Turkish summaries)
Edmunds, David E. (*with* Popivanov, N. I.) Some over-determined boundary-value problems for hyperbolic equations. (English summary) (*see* **98b:00027**)
Gingold, H. (*with* Trutzer, V.) Removing small divisors in the method of characteristics. (English summary) **98k:35123**
Goldstein, Jerome A. (*with* Lightbourne, James H., III; Sandefur, James T., Jr.) The amount of non-uniqueness for factored equations with Euler-Poisson-Darboux factors. (English summary) **98h:35186**
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35L85 Unilateral problems; variational inequalities for hyperbolic PDE [see also 35R35, 49J40]

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35L99 None of the above, but in this section

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Wang, Fan Bin Blow-up and die-out of solutions of nonlinear pseudo-hyperbolic equations of generalized nerve conduction type. (Chinese. English and Chinese summaries)

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Altın, Abdullah (*with* Kaya, Meryem) The extension of Bateman theorem for an ultrahyperbolic equation. (English summary) **98a:35092**

— (*with* Young, Eutiquio C.) Homogeneous solutions for a class of singular partial differential equations.

Anco, Stephen C. (*with* Bluman, George) Direct construction of conservation laws from field equations. (English summary) **98a:58057**

Bainov, Drumi D. (*with* Minchev, Emil) Monotone iterative methods for impulsive hyperbolic equations. (*see* **98e:34002**)

Barbu, Viorel (*with* Favini, Angelo) Periodic problems for degenerate differential equations. (English summary) **98m:34119**

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Colli, Pierluigi (*with* Gilardi, Gianni; Grasselli, Maurizio) Weak solution to hyperbolic Stefan problems with memory. (English summary) **98g:35220**

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Eddahbi, M'hamed Large deviations for solutions of hyperbolic SPDE's in the Hölder norm. (English summary) **98k:60037**

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Gérard, Patrick (*with* Markowich, Peter A.; Mauser, Norbert J.; Poupaud, Frédéric) Homogenization limits and Wigner transforms. (English summary) **98d:35020**

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Kamont, Zdzisław (*with* Salvadori, Anna) Uniqueness of solutions to hyperbolic functional-differential problems. **98m:35213**

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Kim, Dongryeol (*with* Kim, Jinsoo; Sheen, Dongwoo) Absorbing boundary conditions for wave propagation in viscoelastic media. (English summary) **98e:73067**

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Kreiss, Heinz-Otto (*with* Nagy, Gabriel B.; Ortiz, Omar E.; Reula, Oscar A.) Global existence and exponential decay for hyperbolic dissipative relativistic fluid theories. (English summary) **98m:83039**

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— An initial-boundary value problem for the pseudo-hyperbolic equation of gravity-gyroscopic waves. **98g:76016**

Laubin, P. Conormality and Lagrangian properties in diffractive boundary value problems. **98d:58187**

Lebeau, Gilles (*with* Zuazua, Enrique) Sur la décroissance non uniforme de l'énergie dans le système de la thermoélasticité linéaire. (English and French summaries) [On the nonuniform decay of the energy of solutions of the three-dimensional linear system of thermoelasticity] **98h:35223**

Lurie, Konstantin A. Spatio-temporal control in the coefficients of linear hyperbolic equations. (English summary) **98e:93059**

Maksimov, Vyacheslav I. Some dynamical inverse problems for hyperbolic systems. (English summary) **98k:93060**

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Oka, Hirokazu (*with* Tanaka, Naoki) Abstract quasilinear integrodifferential equations of hyperbolic type. **98g:45016**

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Strand, Bo Numerical studies of hyperbolic IBVP with high-order finite difference operators satisfying a summation by parts rule. (English summary)

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35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80.}

35M10 PDE of mixed type

Aguilar, Gloria (*with* Lisbona, F.; Madaune-Tort, M.) Analysis of a nonlinear parabolic-hyperbolic problem. (English summary) **98h:35177**

Aldashev, S. A. On the well-posedness of Dirichlet problems for the multidimensional wave equation and the multidimensional Lavrent'ev-Bitsadze equation. (Russian. English and Ukrainian summaries) **98c:35121**

Dzhursev, T. D. (*with* Kadyrov, R. R.) On the behavior at infinity of the solution of nonlocal boundary value problems for elliptic-parabolic equations. (Russian. English and Uzbek summaries) **98d:35158**

Eldesbaev, T. On an inverse problem for an equation of mixed type whose order degenerates. (Russian. English, Russian and Kazakh summaries) **98a:35093**

Ferreira, Jorge (*with* Lar'kin, N. A.) Decay of solutions of nonlinear hyperbolic-parabolic equations in noncylindrical domains. (English summary) **98c:35122**

Kadyrov, R. R. On estimates of Nash-De Giorgi type for generalized solutions of nonlocal boundary value problems for elliptic-parabolic equations. (Russian. English and Uzbek summaries) **98d:35157**

— *see also* **Dzhursev, T. D., 98d:35158**

Kapustin, N. Yu. On spectral problems that arise in the theory of the parabolic-hyperbolic heat equation. (Russian) **98d:35159**

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Liu, Tai-Ping Regularization of solution operators for quasilinear hyperbolic-parabolic partial differential equations. (English summary)

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Marcati, Pierangelo Weak solutions to a nonlinear partial differential equation of mixed type. (English summary) **98c:35123**

Moiseev, E. I. On the uniqueness of the solution of a three-dimensional boundary value problem for an equation of mixed type. (Russian. Russian summary) **98b:35122**

Payne, K. R. Propagation of singularities for solutions to the Dirichlet problem for equations of Tricomi type. (English summary) **98m:35138**

Polosin, A. A. On the unique solvability of the Tricomi problem for a special domain. (Russian. Russian summary) **98b:35123**

Rassias, John Michael Uniqueness of quasi-regular solutions for a parabolic elliptic-hyperbolic Tricomi problem. (English summary) **98j:35126**

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Altın, Abdullah (*with* Young, Eutiquio C.) Homogeneous solutions for a class of singular partial differential equations.

— (*with* Kaya, Meryem) Some extensions of Brill's theorem. (English and Turkish summaries) **98m:35110**

Azevedo, Arthur V. (*with* Marchesin, Dan; Plohr, Bradley J.; Zumbrun, Kevin) Nonuniqueness of solutions of Riemann problems caused by 2-cycles of shock waves. (English summary) **98c:35110**
Biler, Piotr (*with* Nadzieja, Tadeusz) A singular problem in electrolytes theory. (English summary) **98k:35196**
Chadam, John (*with* Chen, Xinfu; Gianni, Roberto; Ricci, Riccardo) A reaction infiltration problem: classical solutions. (English summary) **98g:35103**
Chen, Xinfu *see* **Chadam, John; et al., 98g:35103**
Davydov, Aleksei Aleksandrovich (*with* Rosales-Gonsales, È.) Complete classification of generic linear second-order partial differential equations in the plane. (Russian) **98b:35011**
Demoulini, Sophia Young measure solutions for nonlinear evolutionary systems of mixed type. (English and French summaries) **98h:35098**
Gianni, Roberto *see* **Chadam, John; et al., 98g:35103**
Hayashi, Nakao (*with* Hirata, Hitoshi) Global existence and asymptotic behavior in time of small solutions to the elliptic-hyperbolic Davey-Stewartson system. (*see* **98k:00020**)
Hirata, Hitoshi *see* **Hayashi, Nakao, (98k:00020)**
Kapustin, N. Yu. (*with* Moiseev, E. I.) On a spectral problem from the theory of the parabolic-hyperbolic heat equation. (Russian) **98c:34132**
Kaya, Meryem *see* **Altın, Abdullah, 98m:35110**
Kilbas, A. A. (*with* Repin, Oleg A.; Saïgo, Megumi) Solution in closed form of boundary value problem for degenerate equation of hyperbolic type. (English summary) **98b:35121**
Marchesin, Dan *see* **Azevedo, Arthur V.; et al., 98c:35110**
Migórski, Stanisław Homogenization of hyperbolic-parabolic equations in perforated domains. **98e:35021**
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Polosin, A. A. On the expansion of the solution of the generalized Gellerstedt problem in a biorthogonal series. (Russian. Russian summary) **98g:35031**
Popivanov, Pet″r R. Nonexistence of isolated singularities for nonlinear systems of partial differential equations and some applications. (English summary) **98m:35004**
Repin, Oleg A. *see* **Kilbas, A. A.; et al., 98b:35121**
Ricci, Riccardo *see* **Chadam, John; et al., 98g:35103**
Rosales-Gonsales, È. *see* **Davydov, Aleksei Aleksandrovich, 98b:35011**
Saïgo, Megumi *see* **Kilbas, A. A.; et al., 98b:35121**
Shibata, Yoshihiro An initial-boundary value problem for some hyperbolic-parabolic coupled system. (English summary) (*see* **98h:00031**)
Uchikoshi, Keisuke Microlocal study of Tricomi equations. (*see* **98h:00024**)
Usanetashvili, M. A. Boundary value problems for some classes of degenerating second order partial differential equations. (English and Georgian summaries) **98h:35038**
Young, Eutiquio C. *see* **Altın, Abdullah**
Zumbrun, Kevin *see* **Azevedo, Arthur V.; et al., 98c:35110**

35M20 PDE of composite type

Bougoffa, Lazhar Problèmes aux limites pour une classe d'équations composites parabolo-elliptiques. (English and French summaries) [Boundary value problems for a class of composite equations of parabolic-elliptic type] **98a:35094**
Krutitskii, Pavel A. On the asymptotics of the gradient of the solution and the appearance of singularities in an initial-boundary value problem for an equation of composite type. (Russian)

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Berdyshev, A. S. The Riesz basis property of a system of root functions of a nonlocal boundary value problem for an equation of mixed-composite type. (Russian. Russian summary) **98a:35100**
Korpusov, M. O. (*with* Pletner, Yu. D.; Sveshnikov, A. G.) The problem of oscillations of a two-sided segment in a stratified fluid. (Russian. Russian summary) **98m:76043**
— (*with* Pletner, Yu. D.; Sveshnikov, A. G.) Unsteady waves in a stratified fluid that are excited by a change in the normal velocity component on a curvilinear segment. (Russian. Russian summary) **98m:76044**
Kozhanov, A. I. Questions of posing and solvability of linear inverse problems for elliptic equations. (English summary) **98i:35208**
Pletner, Yu. D. *see* **Korpusov, M. O.; et al., 98m:76043** *and* **98m:76044**
Racke, Reinhard (*with* Zheng, Songmu) Global existence and asymptotic behavior in nonlinear thermoviscoelasticity. (English summary) **98a:35127**
Sveshnikov, A. G. *see* **Korpusov, M. O.; et al., 98m:76043** *and* **98m:76044**
Zheng, Songmu *see* **Racke, Reinhard, 98a:35127**

35M99 None of the above, but in this section

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Bouziani, Abdelfatah Problème aux limites pour certaines équations de type non classique du troisième ordre. (English and French summaries) [A boundary value problem for certain nonclassical third-order equations] **98c:35023**

35Nxx Overdetermined systems [see also 58G05, 58G07, 58Hxx]

35N05 Overdetermined systems with constant coefficients

Alessandrini, Giovanni (*with* Magnanini, R.) Symmetry and nonsymmetry in some overdetermined boundary value problems. **98h:35178**
Boiti, C. (*with* Nacinovich, Mauro) The overdetermined Cauchy problem. (English and French summaries) **98a:35095**
Magnanini, R. *see* **Alessandrini, Giovanni, 98h:35178**
Nacinovich, Mauro *see* **Boiti, C., 98a:35095**

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Schaefer, Philip W. On overdetermined problems for the homogeneous and inhomogeneous biharmonic equation. (English summary)
— Overdetermined problems for the inhomogeneous biharmonic equation. (English summary)

35N10 Overdetermined systems with variable coefficients (general)

Aftalion, Amandine (*with* Busca, Jérôme) Symétrie radiale pour des problèmes elliptiques surdéterminés posés dans des domaines extérieurs. (English and French summaries) [Radial symmetry of overdetermined boundary value problems in exterior domains] **98a:35096**
Alemayehu, Dejene (*with* Porru, Giovanni) Overdetermined problems for elliptic equations. (English summary) (*see* **98c:00012**)
Busca, Jérôme *see* **Aftalion, Amandine, 98a:35096**
Chatelain, Thierry A new approach to two overdetermined eigenvalue problems of Pompeiu type. (English summary) **98k:35138**
Edmunds, David E. (*with* Popivanov, N. I.) Some over-determined boundary-value problems for hyperbolic equations. (English summary) (*see* **98b:00027**)
Kamran, Niky (*with* Tenenblat, K.) Periodic systems for the higher-dimensional Laplace transformation. (English summary) **98m:35139**
Popivanov, N. I. *see* **Edmunds, David E., (98b:00027)**
Porru, Giovanni *see* **Alemayehu, Dejene, (98c:00012)**
Tenenblat, K. *see* **Kamran, Niky, 98m:35139**

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Bahrami, Farid (*with* Shahgholian, Henrik) Uniqueness for an overdetermined boundary value problem for the p-Laplacian. (English summary) **98h:31007**
Han, Zuhong Local solvability of analytic pseudodifferential complexes in top degree. **98c:35004**
Henrot, Antoine (*with* Philippin, Gérard A.) On a class of overdetermined eigenvalue problems. (English summary) **98e:35052**
Kamynin, V. L. On the passage to the limit in inverse problems for parabolic equations with the integral overdetermination condition. (Russian. Russian summary) **98a:35143**
Philippin, Gérard A. *see* **Henrot, Antoine, 98e:35052**
Schaefer, Philip W. On an overdetermined elliptic problem with a nonstandard boundary condition. (*see* **98h:00034**)
Shahgholian, Henrik *see* **Bahrami, Farid, 98h:31007**
Tajima, Shinichi Direct image of the de Rham system associated with a rational double point—a five fingers exercise. **98c:32013**

35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [see also 32F20 and 58G05]

Derridj, Makhlouf La sous-ellipticité pour le problème $\overline{\partial}$-Neumann dans un domaine pseudoconvexe de $\mathbf{C}^n$ (d'après D. Catlin). (French summary) [Subellipticity of the $\overline{\partial}$-Neumann problem in a pseudoconvex domain in $\mathbf{C}^n$ (after D. Catlin)] **98d:35160**
Dzhuraev, Abdukhamid Dzhuraevich On linear boundary value problems in the unit ball of $\mathbf{C}^n$. (English summary) **98d:35161**

Items with secondary classifications in 35N15

Derridj, Makhlouf Analyticité globale de la solution canonique de $\overline{\partial}_b$ pour une classe d'hypersurfaces compactes pseudoconvexes de $\mathbf{C}^2$. [Global analyticity of the canonical solution of $\overline{\partial}_b$ for a class of pseudoconvex compact hypersurfaces in $\mathbf{C}^2$] **98j:32016**
Jacobowitz, Howard The Levi and Stein problems for elliptic structures. **98d:32025**
Ma, Zhong Tai The explicit solutions of $C^{k+\alpha}_{p,q}$-form for the $\overline{\partial}$-equations on pseudoconvex open sets. (English summary) **98d:32023a**
— Solutions of $C^{k+\alpha}_{p,q}$ form for the $\overline{\partial}$ equation and their sup-norm estimates. (Chinese. English and Chinese summaries) **98d:32023b**
Range, R. Michael Singular integral operators in the $\overline{\partial}$ theory on convex domains in $\mathbf{C}^n$. (English summary) **98k:32022**
Straube, Emil J. Plurisubharmonic functions and subellipticity of the $\overline{\partial}$-Neumann problem on non-smooth domains. **98m:32024**

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Clarkson, Peter A. *see* **Mansfield, Elizabeth L., 98c:35001**
Jurchescu, Martin The Cauchy-Riemann complex on a mixed manifold. (English summary) **98b:32012**
Mansfield, Elizabeth L. (*with* Clarkson, Peter A.) Applications of the differential algebra package `diffgrob2` to classical symmetries of differential equations. (English summary) **98c:35001**

35Pxx Spectral theory and eigenvalue problems for partial differential operators [see also 47Axx, 47Bxx, 47F05]

Items with secondary classifications in 35Pxx

Haroske, Dorothee Some logarithmic function spaces, entropy numbers, applications to spectral theory. (English summary) **98m:46046**

35P05 General spectral theory of PDE

Ali Mehmeti, Felix ★ Transient tunnel effect and Sommerfeld problem. (English summary) **98a:35097**

— (*with* Meister, Erhard; Mihalinčić, Krešo) Spectral theory for the wave equation in two adjacent wedges. (English summary) **98d:35162**

Anane, Aomar (*with* Chakrone, Omar; Gossez, Jean-Pierre) Spectre d'ordre supérieur et problèmes de non-résonance. (English and French summaries) [Higher-order spectrum and problems of nonresonance] **98d:35163**

Arendt, Wolfgang (*with* Batty, Charles J. K.) The spectral function and principal eigenvalues for Schrödinger operators. (English summary) **98g:35148**

Batty, Charles J. K. *see* **Arendt, Wolfgang, 98g:35148**

Ben-Artzi, Matania On spectral properties of the acoustic propagator in a layered band. (English summary) **98f:35111**

Bucur, Dorin (*with* Zolésio, Jean-Paul) Stabilité du spectre d'un opérateur elliptique par rapport au domaine. (English and French summaries) [Stability of the spectrum of an elliptic operator under domain perturbations] **98e:35121**

Burq, Nicolas Vitesse de convergence vers le réel des résonnances. [Rate of convergence of resonances to the reals] **98b:35124**

Cattaneo, Carla The spectrum of the continuous Laplacian on a graph. (English summary) **98j:35127**

Chakrone, Omar *see* **Anane, Aomar; et al., 98d:35163**

Danilov, L. I. Resolvent estimates and the spectrum of the Dirac operator with a periodic potential. (Russian. English and Russian summaries) **98f:35112**

Davies, E. B. L^p spectral theory of higher-order elliptic differential operators. **98d:35164**

Dubrovskiĭ, V. V. On an inequality in inverse problems of spectral analysis. (Russian. Russian summary)

Evans, William Desmond (*with* Lewis, Roger T.; Siedentop, Heinz; Solovej, Jan Philip) Counting eigenvalues using coherent states with an application to Dirac and Schrödinger operators in the semi-classical limit. **98d:35165**

Exner, Pavel Laterally coupled quantum waveguides. (English summary) **98m:35140**

Fujita, Keiko *see* **Morimoto, Mitsuo, (98f:35006)**

Gossez, Jean-Pierre *see* **Anane, Aomar; et al., 98d:35163**

Hempel, Rainer (*with* Kriecherbauer, Thomas; Plankensteiner, Peter) Discrete and Cantor spectrum for Neumann Laplacians of combs. (English summary) **98m:35141**

Iftimie, Viorel Décroissance exponentielle des fonctions propres des opérateurs de Schrödinger avec des champs magnétiques. [Exponential decay of eigenfunctions of Schrödinger operators with magnetic fields] **98d:35166**

Kipriyanova, N. I. Estimates of anti-a priori type for eigen- and associated functions of the singular Schrödinger operator. (Russian) **98h:35179**

Kriecherbauer, Thomas *see* **Hempel, Rainer; et al., 98m:35141**

Leopold, Hans-Gerd (*with* Schrohe, Elmar) Invariance of the L_p spectrum for hypoelliptic operators. (English summary) **98b:35125**

Levendorskiĭ, S. Z. Spectral properties of Schrödinger operators with irregular magnetic potentials, for a spin $\frac{1}{2}$ particle. (English summary) **98m:35142**

Levitin, M. R. Exterior spectral problem for the Douglis-Nirenberg elliptic dissipative operator. (English summary) **98i:35134**

Lewis, Roger T. *see* **Evans, William Desmond; et al., 98d:35165**

Lindeman, Arthur, II (*with* Pang, M. M. H.; Zhao, Zhong Xin) Sharp bounds for ground state eigenfunctions on domains with horns and cusps. (English summary) **98h:35180**

Meister, Erhard *see* **Ali Mehmeti, Felix; et al., 98d:35162**

Mihalinčić, Krešo *see* **Ali Mehmeti, Felix; et al., 98d:35162**

Morimoto, Mitsuo (*with* Fujita, Keiko) Eigenfunctions of the Laplacian of exponential type. (*see* **98f:35006**)

Okazawa, Noboru L^p-theory of Schrödinger operators with strongly singular potentials. **98a:35098**

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Plankensteiner, Peter *see* **Hempel, Rainer; et al., 98m:35141**

Pokrovskiĭ, A. A. Spectral analysis of sound and vibration in thin vibrating planes contacting fluid. (English summary) **98h:35181**

Prodi, Giovanni Dependence of the eigenvalues of the Laplace operator on the domain. (Italian. English summary) **98g:35149**

Schrohe, Elmar *see* **Leopold, Hans-Gerd, 98b:35125**

Siedentop, Heinz *see* **Evans, William Desmond; et al., 98d:35165**

Solovej, Jan Philip *see* **Evans, William Desmond; et al., 98d:35165**

Stolz, Günter Localization for Schrödinger operators with effective barriers. (English summary) **98h:35182**

Stoyanov, Luchezar On the scattering length spectrum. (English and French summaries) **98g:35150**

Yamada, Osanobu On the spectrum of Dirac operators with the unbounded potential at infinity. (English summary) **98e:35122**

Zayed, E. M. E. An inverse problem for a general doubly-connected bounded domain: an extension to higher dimensions. (English summary) **98m:35143**

Zhao, Zhong Xin *see* **Lindeman, Arthur, II; et al., 98h:35180**

Zolésio, Jean-Paul *see* **Bucur, Dorin, 98e:35121**

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Albrecht, Ernst (*with* Ricker, Werner J.) Local spectral properties of certain matrix differential operators in $L^p(\mathbf{R}^N)^m$. (English summary) **98b:47060**

Bandelow, U. *see* **Rehberg, Joachim; et al., 98d:34116**

Belishev, M. I. (*with* Gotlib, V. Yu.; Ivanov, Sergeĭ Alekseevich) The BC method in multidimensional spectral inverse problem: theory and numerical illustrations. (English summary) **98k:93056**

Braverman, Maxim On self-adjointness of a Schrödinger operator on differential forms. (English summary) **98g:58163**

Carlson, Robert A Borg-Levinson theorem for Bessel operators. (English summary) **98b:34029**

Dia, Boun Oumar (*with* Schatzman, Michelle) An estimate of the Kac transfer operator. (English summary) **98h:47057**

Dimassi, Mouez Formule de trace et applications. [The trace formula and applications] (*see* **98f:35004**)

Dinaburg, E. I. (*with* Sinaĭ, Yakov Grigor'evich; Soshnikov, A. B.) Splitting of the low Landau levels into a set of positive Lebesgue measure under small periodic perturbations. (English summary) **98j:81079**

Dubrovskiĭ, V. V. Estimation of the difference of spectral functions with brackets on a diagonal for selfadjoint elliptic pseudodifferential operators in l_q for $1 \le q \le 2$. (Russian) **98h:47068**

Edward, Julian Spectral theory for the Neumann Laplacian on planar domains with horn-like ends. (English summary) **98j:47105**

Fishman, Louis (*with* Gautesen, A. K.; Sun, Zhiming) Uniform high-frequency approximations of the square root Helmholtz operator symbol. (English summary) **98d:65133**

Gadyl'shin, Rustem R. Existence and asymptotics of poles with a small imaginary part for the Helmholtz resonator. (Russian) **98j:35033**

Gautesen, A. K. *see* **Fishman, Louis; et al., 98d:65133**

Geymonat, G. (*with* Loreti, Paola; Valente, Vanda) Spectral problems for thin shells and exact controllability. (English summary) **98j:73056**

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Griniv, R. O. On the spectrum of an operator pencil that arises in the problem of oscillations of a semi-infinite rod with internal friction. (Russian. Russian summary) **98h:34147**

Helffer, Bernard Splitting in large dimension and infrared estimates. (English summary) **98j:81089**

Hino, Masanori Spectral properties of Laplacians on an abstract Wiener space with a weighted Wiener measure. (English summary) **98a:58200**

Ichinose, Takashi (*with* Takanobu, Satoshi) On the norm estimate of the difference between the Kac operator and the Schrödinger semigroup. (English summary) **98b:47061**

Il'in, Vladimir Aleksandrovich[1] (*with* Moiseev, E. I.) An order-sharp estimate that is uniform in $\mathbf{R}^N$ for $N = 2$ and $N = 3$ for the increment with respect to the spectral parameter taken on the diagonal of the spectral function for the Schrödinger operator with a potential satisfying the Kato condition. (Russian) **98c:47059**

Ivanov, Sergeĭ Alekseevich *see* **Belishev, M. I.; et al., 98k:93056**

Jäger, Willi (*with* Saitō, Yoshimi) The reduced wave equation in layered materials. **98m:35029**

Jitomirskaya, Svetlana Ya. Continuous spectrum and uniform localization for ergodic Schrödinger operators. (English summary) **98f:39014**

Klopp, Frédéric Étude semi-classique d'une perturbation d'un opérateur de Schrödinger périodique: cas d'un nombre fini de perturbations. (English and French summaries) [Semiclassical study of a perturbation of a periodic Schrödinger operator: the case of finitely many perturbations] **98k:35032**

Konstantinov, A. Yu. Spectral analysis of a class of matrix differential operators. (Russian) **98k:35142**

Kvitsinskiĭ, A. A. Zeta functions of nearly circular domains. (English summary) **98c:58177**

Leopold, Hans-Gerd Spectral invariance for pseudodifferential operators on function spaces. (*see* **98e:00019**)

Lewis, Roger T. (*with* Siedentop, Heinz; Vugal'ter, S. A.) The essential spectrum of relativistic multi-particle operators. (English and French summaries) **98i:81046**

Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) High frequency vibrations in a stiff problem. (English summary) **98e:35053**

Loreti, Paola *see* **Geymonat, G.; et al., 98j:73056**

Lyashenko, A. A. On the stability of linear ill-posed problems with a prescribed energy bound. (English summary) **98f:35157**

Makin, A. S. On a boundary value problem for the Schrödinger operator with a complex potential. (Russian. Russian summary) **98b:35039**

Mandouvalos, N. (*with* Marias, M.) L^p spectral theory for manifolds of hyperbolic type. (English summary) **98g:58183**

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Martinez, André Microlocal exponential estimates and applications to tunneling. **98j:35008**

Melgaard, Michael (*with* Rozenblyum, G. V.) Spectral estimates for magnetic operators. (English summary) **98f:81067**

Melrose, Richard B. The inverse spectral problem for planar domains. **98a:58164**

Moiseev, E. I. *see* **Il'in, Vladimir Aleksandrovich**[1]**, 98c:47059**

Möller, Manfred (*with* Zettl, Anton) Differentiable dependence of eigenvalues of operators in Banach spaces. (English summary) **98d:47017**

Ogurisu, Osamu Anticommutativity and spin 1/2 Schrödinger operators with magnetic fields. (English summary) **98b:81040**

Oleĭnik, Ol'ga Arsen'evna (*with* Shaposhnikova, T. A.) On spectral problems in partially perforated domains. (English summary) **98j:35018**

Pérez, Eugenia *see* **Lobo-Hidalgo, Miguel, 98e:35053**

Rehberg, Joachim (*with* Wünsche, H.-J.; Bandelow, U.; Wenzel, H.) Spectral properties of a system describing fast pulsating DFB lasers. (English summary) **98d:34116**

Rejto, Peter (*with* Taboada, Mario) A limiting absorption principle for Schrödinger operators with generalized von Neumann-Wigner potentials. I. Construction of approximate phase. (English summary) **98c:35032**

Ricker, Werner J. *see* **Albrecht, Ernst, 98b:47060**

Robert, Didier (*with* Sordoni, Vania) Trace formulas and Dirichlet-Neumann problems with variable boundary: the scalar case. (English summary) **98b:47062**

Rottbrand, K. Rawlins' problem for half-plane diffraction: its generalized eigenfunctions with real wave numbers. (English summary) **98g:35130**

Rozenblyum, G. V. *see* **Melgaard, Michael, 98f:81067**

Rummler, B. The eigenfunctions of the Stokes operator in special domains. I. (English and German summaries) **98f:35120**

— The eigenfunctions of the Stokes operator in special domains. II. (English and German summaries) **98h:35192**

Safronov, O. L. Emergence and disappearance of the discrete spectrum in a gap of a second-order periodic operator under decreasing perturbations with alternating signs. (Russian) **98g:47040**

Sahbani, Jaouad Propagation theorems for some classes of pseudo-differential operators.

(English summary) **98e:47078**
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Semenov, Yu. A. Stability of L^p-spectrum of generalized Schrödinger operators and equivalence of Green's functions. **98m:47079**
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Shubov, Marianna A. Asymptotics of resonances and eigenvalues for nonhomogeneous damped string. (English summary) **98b:35107**
— Nonselfadjoint operators generated by the equation of a nonhomogeneous damped string. (English summary) **98h:35176**
Siedentop, Heinz *see* **Lewis, Roger T.; et al., 98i:81046**
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Stavrakakis, Nikos M. Semilinear biharmonic problems on $\mathbf{R}^N$. **98h:35066**
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Yamada, Osanobu A remark on the spectrum of Dirac operators with the unbounded potential at infinity. (English summary) **98f:81068**
Zayed, E. M. E. An inverse problem for a general doubly connected bounded domain in $\mathbf{R}^3$ with a finite number of piecewise impedance boundary conditions. (English summary) **98d:35238**
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35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO

Aliev, I. V. On the basis property of a system of eigen- and associated functions for nonlocal boundary value problems. (Russian. Russian summary) **98a:35099**
Alimov, Sh. A. (*with* Rakhimov, Abdumalik A.) On the localization of spectral expansions of distributions in a closed domain. (Russian. Russian summary) **98j:35128**
Berdyshev, A. S. The Riesz basis property of a system of root functions of a nonlocal boundary value problem for an equation of mixed-composite type. (Russian. Russian summary) **98a:35100**
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Ibrahim, S. F. M. *see* **Zayed, E. M. E., 98b:35127**
Leung, P. T. (*with* Tong, S. S.; Young, Kenneth) Two-component eigenfunction expansion for open systems described by the wave equation. I. Completeness of expansion. (English summary) **98e:35123a**
— (*with* Tong, S. S.; Young, Kenneth) Two-component eigenfunction expansion for open systems described by the wave equation. II. Linear space structure. (English summary) **98e:35123b**
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Tokita, Takesi On the completeness of the eigenfunctions of elliptic operators. (English summary) (*see* **98b:00027**)
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Young, Kenneth *see* **Leung, P. T.; et al., 98e:35123a** *and* **98e:35123b**
Zayed, E. M. E. (*with* Ibrahim, S. F. M.) An expansion theorem for an eigenvalue problem of an arbitrary multiply connected domain with an eigenparameter in a general type of boundary conditions. (English summary) **98b:35127**

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Li, Luoqing The rate of convergence of eigenfunction expansions for Laplace operator on compact Riemannian manifolds. (English summary) **98c:58171**
Pati, V. (*with* Sitaram, Alladi; Sundari, M.; Thangavelu, Sundaram) An uncertainty principle for eigenfunction expansions. (English summary) **98g:42046**
Rakhimov, Abdumalik A. *see* **Alimov, Sh. A., 98a:47051**
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Thangavelu, Sundaram *see* **Pati, V.; et al., 98g:42046**
Zhang, Hong Qing[1] (*with* Alatancang; Zhong, Wan Xie) The Hamiltonian system and completeness of symplectic orthogonal system. (Chinese) **98i:34085**
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35P15 Estimation of eigenvalues, upper and lower bounds

Ashbaugh, Mark S. (*with* Benguria, Rafael D.) The range of values of λ_2/λ_1 and λ_3/λ_1 for the fixed membrane problem. (English summary) (*see* **98c:82001**)
— (*with* Benguria, Rafael D.; Laugesen, Richard Snyder) Inequalities for the first eigenvalues of the clamped plate and buckling problems. (English summary) **98j:35129**
— (*with* Benguria, Rafael D.) On the Payne-Pólya-Weinberger conjecture on the n-dimensional sphere. (English summary) **98k:35139**
— (*with* Levine, Howard A.) Inequalities for the Dirichlet and Neumann eigenvalues of the Laplacian for domains on spheres. (English summary) **98m:35144**
Avinyo, Albert Isoperimetric constants and some lower bounds for the eigenvalues of the p-Laplacian. **98j:35130**
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— *see also* **Kirane, Mokhtar, 98a:35133**
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Yoshida, Norio Zeros of solutions of hyperbolic equations with functional arguments. **98g:35204**
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Burton, T. A. (*with* Zhang, Bo[1]) Periodic solutions of finite- and infinite-dimensional functional-differential equations. **98h:34123**
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Kaminogo, Takashi Topological properties of solution mappings in functional-differential equations. (*see* **98i:00028**)
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35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [see also 46Gxx, 58D25]

Albeverio, Sergio (*with* Smolyanov, O. G.) Infinite-dimensional stochastic Schrödinger-Belavkin equations. (Russian) **98g:35205**
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Chung, Dong Myung (*with* Chung, Tae Su) First order differential operators in white noise analysis. (English summary) **98j:46040**
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Liu, Kai[2] Stability with a general rate function for a class of stochastic evolution equations in infinite-dimensional spaces. (English summary) **98c:93115**
Obata, Nobuaki Constructing one-parameter transformations on white noise functions in terms of equicontinuous generators. (English summary) **98m:46058**
Romanenko, E. Yu. (*with* Sharkovs′kiĭ, Aleksandr) From one-dimensional to infinite-dimensional dynamical systems: ideal turbulence. (Ukrainian. English and Ukrainian summaries) **98h:58179**
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35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [see also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]

Fayazov, K. S. The Cauchy problem for partial differential equations with operator coefficients. (Russian) **98b:35219**
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Glushak, A. V. Stabilization of the solution of the Dirichlet problem for an elliptic equation in a Banach space. (Russian. Russian summary) **98k:34095**
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35R25 Improperly posed problems for PDE

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35R30 Inverse problems (undetermined coefficients, etc.) for PDE

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— Some results in inverse problems for kinetic and other evolution equations. (English summary) **98g:35208**
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Bao, Gang[1] (*with* Symes, William W.) Regularity of an inverse problem in wave propagation. (English summary) (*see* **98h:00027**)
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Kabanikhin, S. I. (*with* Bakanov, G. B.) A discrete analogue of the Gel'fand-Levitan method. (Russian) **98k:35205**

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Jaruszewska-Walczak, Danuta On impulsive parabolic differential-functional inequalities. (English summary) **98b:35228**
Kon'kov, Andrei A. Positive solutions of nonlinear second-order elliptic inequalities in unbounded domains. (English summary) **98i:35218**
Łojczyk-Królikiewicz, Irena The elliptic systems of differential-functional inequalities. (Polish summary) **98c:35172**
Lu, Guozhen (*with* Wolff, Thomas) Unique continuation with weak type lower order terms. (English summary) **98j:35192**
Mitidieri, Enzo *see* **Caristi, Gabriella, 98i:35217**
Naito, Yūki (*with* Usami, Hiroyuki) Entire solutions of the inequality $\operatorname{div}(A(|Du|)Du) \geq f(u)$. **98e:35178**
Regbaoui, Rachid Strong unique continuation results for differential inequalities. (English summary) **98h:35247**
Topolski, Krzysztof Parabolic differential-functional inequalities in viscosity sense. (English summary) **98j:35193**
Tuvaev, M. V. Removable singular sets of solutions of parabolic inequalities. (Russian. Russian summary) **98i:35219**
Usami, Hiroyuki *see* **Naito, Yūki, 98e:35178**
Wolff, Thomas *see* **Lu, Guozhen, 98j:35192**

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Glagoleva, R. Ya. A sufficient condition for the existence of a "dead zone" in solutions of degenerate semi-linear parabolic equations and inequalities. (Russian. Russian summary) **98m:35111**
Grammatico, Cataldo A result on strong unique continuation for the Laplace operator. **98j:35034**
Molle, Riccardo (*with* Passaseo, Donato) An elliptic problem with pointwise constraint on the Laplacian. **98m:35036**
Passaseo, Donato *see* **Molle, Riccardo, 98m:35036**
Regbaoui, Rachid Strong uniqueness for second order differential operators. (English summary) **98i:35002**
Shapoval, A. B. On the behavior of solutions of quasilinear elliptic inequalities in an unbounded domain. (Russian. Russian summary) **98k:35058**
Topolski, Krzysztof Classical methods for viscosity solutions of differential-functional inequalities. (English summary) **98i:35201**
Zhou, Detang Laplace inequalities with geometric applications. **98b:53051**

35R50 Partial differential equations of infinite order

Okada, Jun-ichi The existence and the continuation of holomorphic solutions for convolution equations in a half-space in $\mathbf{C}^n$. (English summary) **98e:35179**
Vidras, Alekos On holomorphic perturbations of infinite order differential equations. (English summary) **98h:35248**
Zanghirati, Luisa Pseudodifferential operators of infinite order and applications. **98j:35194**

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Balashova, Galina S. On Sobolev spaces of infinite order. (Russian)
Berenstein, Carlos A. (*with* Kawai, Takahiro; Struppa, Daniele C.) Interpolating varieties and the Fabry-Ehrenpreis-Kawai gap theorem. **98e:32018**
Ha Huy Bang A remark on differential operators of infinite order. (English summary) **98c:46077**
Ishimura, Ryuichi (*with* Okada, Yasunori) The micro-support of the complex defined by a convolution operator in tube domains. **98f:58181**
Kawai, Takahiro *see* **Berenstein, Carlos A.; et al., 98e:32018**
Okada, Yasunori *see* **Ishimura, Ryuichi, 98f:58181**
Struppa, Daniele C. *see* **Berenstein, Carlos A.; et al., 98e:32018**

35R60 Partial differential equations with randomness [see also 60H15]

Brzeźniak, Zdzisław On stochastic convolution in Banach spaces and applications. (English summary)
Dermoune, A. Around the stochastic Burgers equation. (English summary) **98c:35173**
Ėndzhirgli, M. V. *see* **Kozachenko, Yu. V., 98a:35148**
Ferrario, Benedetta The Bénard problem with random perturbations: dissipativity and invariant measures. (English summary) **98c:35174**
Flandoli, Franco Irreducibility of the 3-D stochastic Navier-Stokes equation. (English summary) **98j:35195**
Garbaczewski, Piotr (*with* Kondrat, Grzegorz; Olkiewicz, Robert) Schrödinger's interpolating dynamics and Burgers' flows. (English summary) (*see* **98k:58002**)
Janicki, Aleksander (*with* Woyczyński, Wojbor A.) Hausdorff dimension of regular points in stochastic Burgers flows with Lévy α-stable initial data. (English summary) **98f:35165**
Kashnikova, I. V. Approximation of solutions of Itô stochastic differential equations by solutions of finite-difference equations. (Russian. English and Russian summaries)
Kim, Jeong-Hoon A uniform diffusion limit for random wave propagation with turning point. (English summary) **98b:35229**
Kondrat, Grzegorz *see* **Garbaczewski, Piotr; et al., (98k:58002)**
Kozachenko, Yu. V. (*with* Ėndzhirgli, M. V.) Justification of application of the Fourier method to boundary value problems subject to random initial conditions. II. (Ukrainian. Ukrainian summary) **98a:35148**

Liu, Kai² Large time behaviour for a class of turbulence models—stochastic Burgers equations. (English summary) **98c:35175**
Olkiewicz, Robert *see* **Garbaczewski, Piotr; et al.**, (**98k:58002**)
Pulvirenti, Mario Kinetic limits for stochastic particle systems. **98k:35214**
Schmalfuß, Björn Qualitative properties for the stochastic Navier-Stokes equation. **98a:35149**
Truman, A. (*with* Zhao, Huai Zhong) The stochastic Hamilton Jacobi equation, stochastic heat equations and Schrödinger equations. (English summary) **98b:35230**
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Zastawniak, Tomasz Fresnel type path integral for the stochastic Schrödinger equation. (English summary) **98c:35176**
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Zhikov, Vasilii V. Diffusion in an incompressible random flow. (Russian. Russian summary) **98e:35180**

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Ahmed, N. U. Stochastic B-evolutions on Hilbert spaces. (*see* **98i:00027**)
— (*with* Kerbal, S.) Stochastic systems governed by B-evolutions on Hilbert spaces. (English summary) **98k:60099**
Albeverio, Sergio (*with* Smolyanov, O. G.) Infinite-dimensional stochastic Schrödinger-Belavkin equations. (Russian) **98g:35205**
Aurell, Erik (*with* Frisch, Uriel; Noullez, A.; Blank, Michael) Bifractality of the Devil's staircase appearing in the Burgers equation with Brownian initial velocity. (English summary) **98e:60104**
Bailly, Florence (*with* Clouet, J. F.; Fouque, Jean-Pierre) Parabolic and Gaussian white noise approximation for wave propagation in random media. (English summary) **98e:60105**
Balzano, Michele (*with* Corbo Esposito, Antonio; Paderni, G.) Nonlinear Dirichlet problems in randomly perforated domains. (English and Italian summaries) **98m:35058**
Barles, Guy (*with* Blanc, Alain-Philippe) Large deviations estimates for the exit probabilities of a diffusion process through some vanishing parts of the boundary. **98d:60055**
— (*with* Buckdahn, Rainer; Pardoux, Etienne) Backward stochastic differential equations and integral-partial differential equations. (English summary) **98d:60110**
Benth, Fred Espen (*with* Deck, Th.; Potthoff, Jürgen) A white noise approach to a class of non-linear stochastic heat equations. (English summary) **98g:60112**
— On the positivity of the stochastic heat equation. (English summary) **98f:60119**
Bezen, Alexandre (*with* Klebaner, Fima Chaim) The Riemann's function and its application to stochastic perturbations of a non-linear wave equation. (English summary)
Biondini, G. (*with* De Lillo, S.) Stochastic effects on NLS solitons. (*see* **98a:35001**)
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Bondarēv, B. V. (*with* Korolev, M. E.) The S. N. Bernstein inequality in the averaging of elliptic systems in periodic random media. (Russian. English and Ukrainian summaries) **98c:35014**
— (*with* Korolev, M. E.) On averaging elliptic systems in periodic random media. (English summary) **98f:60120**
Boutet de Monvel-Berthier, Anne-Marie (*with* Grinshpun, Vadim) Exponential localization for multi-dimensional Schrödinger operator with random point potential. (English summary) **98g:81029**
Buckdahn, Rainer *see* **Barles, Guy; et al.**, **98d:60110**
Capiński, Marek (*with* Peszat, Szymon) Local existence and uniqueness of strong solutions to 3-D stochastic Navier-Stokes equations. (English summary) **98c:60065**
Carmona, René A. (*with* Xu, Lin) Homogenization for time-dependent two-dimensional incompressible Gaussian flows. (English summary) **98a:60083**
Chen, Shao Zhong¹ Stochastic analysis method for Hopf's equation $u_t + uu_x = 0$. (English summary) **98k:35164**
Chenal, Fabien (*with* Millet, Annie) Uniform large deviations for parabolic SPDEs and applications. (English summary) **98m:60038**
Chow, Pao-Liu (*with* Menaldi, Jose-Luis) Infinite-dimensional Hamilton-Jacobi-Bellman equations in Gauss-Sobolev spaces. **98e:35171**
Clouet, J. F. *see* **Bailly, Florence; et al.**, **98e:60105**
Constantin, Peter (*with* Wu, Jiahong) Statistical solutions of the Navier-Stokes equations on the phase space of vorticity and the inviscid limits. (English summary) **98c:76022**
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Crauel, Hans (*with* Debussche, Arnaud; Flandoli, Franco) Random attractors. (English summary) **98c:60066**
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— Characterization of the domain of an elliptic operator of infinitely many variables in $L^2(\mu)$ spaces. (English and Italian summaries) **98m:35219**
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Deakin, A. S. *see* **Ord, G. N.**, **98c:82031**
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Deriev, I. (*with* Leonenko, Nikolai N.) Limit Gaussian behavior of the solutions of the multidimensional Burgers' equation with weak-dependent initial conditions. (English summary) **98d:60072**
Dermoune, A. Wick product and stochastic partial differential equations with Poisson measure. (English and French summaries) **98k:60100**
Dokuchaev, N. G. Parabolic equations without a Cauchy boundary condition and problems of the control of diffusion processes. II. (Russian. Russian summary) **98c:35094**
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Dynkin, Eugene B. Stochastic boundary values and boundary singularities for solutions of the equation $Lu = u^a$. (English summary) **98m:60125**
E, Weinan (*with* Rykov, Yu. G.; Sinaĭ, Yakov Grigor'evich) Generalized variational principles, global weak solutions and behavior with random initial data for systems of conservation laws arising in adhesion particle dynamics. (English summary) **98a:82077**
Eddahbi, M'hamed Large deviations for solutions of hyperbolic SPDE's in the Hölder norm. (English summary) **98k:60037**
El Karoui, Nicole (*with* Kapoudjian, C.; Pardoux, Etienne; Peng, Shi Ge; Quenez, M. C.) Reflected solutions of backward SDE's, and related obstacle problems for PDE's. (English summary) **98k:60096**
Fannjiang, Albert (*with* Papanicolaou, George C.) Diffusion in turbulence. (English summary) **98d:60156**
Feng, Jian Feng The hydrodynamic limit for the reaction diffusion equation—an approach in terms of the GPV method. (English summary) **98a:60149**
Ferrario, Benedetta Ergodic results for stochastic Navier-Stokes equation. (English summary) **98h:60090**
Flandoli, Franco (*with* Schmalfuß, Björn) Random attractors for the 3D stochastic Navier-Stokes equation with multiplicative white noise. (English summary) **98g:60113**
— *see also* **Crauel, Hans; et al.**, **98c:60066**
Fouque, Jean-Pierre *see* **Bailly, Florence; et al.**, **98e:60105**
Frisch, Uriel *see* **Aurell, Erik; et al.**, **98e:60104**
Fritz, J. (*with* Rüdiger, B.) Approximation of a one-dimensional stochastic PDE by local mean field type lattice systems. (English summary) **98e:60157**
Goncharuk, N. Yu. Fractional step method for a class of quasilinear stochastic differential equations of parabolic type. (English summary) **98j:35086**
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— (*with* Nualart, David) Implicit scheme for stochastic parabolic partial differential equations driven by space-time white noise. (English summary) **98m:60097**
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— (*with* Risebro, Nils Henrik) Conservation laws with a random source. (English summary) **98c:35108**
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Hu, Yiming (*with* Woyczyński, Wojbor A.) Large-scale structure of the universe and asymptotics of Burgers' turbulence with heavy-tailed dependent data. (English summary) **98i:85005**
Hübner, M. (*with* Khasminskii, Rafail Z.; Rozovskii, Boris L.) Two examples of parameter estimation for stochastic partial differential equations. (English summary) **98b:62042**
Ivashkevich, E. V. Symmetries of the stochastic Burgers equation. (English summary) **98k:76066**
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Kifer, Yuri (*with* Kunita, Hiroshi) Random positive semigroups and their random infinitesimal generators. **98j:60087**
Klebaner, Fima Chaim *see* **Bezen, Alexandre**
Kleptsyna, M. L. (*with* Pyatnitskiĭ, A. L.) Homogenization of random parabolic operators. (English summary) **98f:35013**
Klopp, Frédéric A low concentration asymptotic expansion for the density of states of a random Schrödinger operator with Poisson disorder. (English and French summaries) **98c:82036**
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Koralov, Leonid Effective diffusivity of stationary vector fields with short time correlations. (English summary) **98j:76118**
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Krasnyanskiĭ, M. B. Vector homogenized model for microinhomogeneous finite-difference equation. (English summary) **98k:35013**
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— *see also* **Kifer, Yuri**, **98j:60087**
Kusuoka, Shigeo Stochastic analysis as infinite-dimensional analysis [translation of Sūgaku **45** (1993), no. 4, 289–298; MR 95i:60048]. (*see* **98j:00014**)
Le Jan, Yves (*with* Sznitman, Alain-Sol) Stochastic cascades and 3-dimensional Navier-Stokes equations. (English summary) **98j:35144**
Leonenko, Nikolai N. (*with* Orsingher, Enzo; Rybasov, K. V.) Limiting distributions of the solutions of the many-dimensional Bürgers equation with random initial data. I. (English summary) **98c:60022**
— (*with* Orsingher, Enzo; Rybasov, K. V.) Limiting distributions of the solutions of the many-dimensional Bürgers equation with random initial data. II. (English summary) **98c:60023**
— (*with* Parkhomenko, V. N.) Asymptotic properties of solutions of the Cauchy problem for the Burgers equation with random initial conditions. (Ukrainian. Ukrainian summary) **98c:60041**
— (*with* Parkhomenko, V. N.; Woyczyński, Wojbor A.) Spectral properties of the scaling limit solutions of the Burgers' equation with singular data. (English summary) **98d:60122**
— *see also* **Deriev, I.**, **98d:60072**
Liu, Kai² Stability with a general rate function for a class of stochastic evolution equations in infinite-dimensional spaces. (English summary) **98c:93115**
— On stability for a class of semilinear stochastic evolution equations. (English summary) **98m:60099**
Maier, Robert S. (*with* Stein, Daniel L.) Limiting exit location distributions in the stochastic exit problem. (English summary) **98a:60112**
McKean, Henry P. (*with* Vaninskiĭ, K. L.) Cubic Schrödinger: the petit canonical ensemble in action-angle variables. **98b:35184**

Mel'nik, S. A. The existence of solutions of parabolic-type stochastic equations with power nonlinearities. (Ukrainian. Ukrainian summary) **98c:60069**
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Millet, Annie (*with* Sanz-Solé, Marta) Varadhan estimates for the density of the solution to a parabolic stochastic partial differential equation. (English summary) **98k:60105**
— (*with* Sanz-Solé, Marta) Points of positive density for the solution to a hyperbolic SPDE. (English summary) **98i:60059**
— *see also* **Chenal, Fabien, 98m:60038**
Molchanov, Stanislav Alekseevich (*with* Surgailis, Donatas; Woyczyński, Wojbor A.) The large-scale structure of the universe and quasi-Voronoi tessellation of shock fronts in forced Burgers turbulence in $\mathbf{R}^d$. (English summary) **98h:60092**
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Mueller, Carl Eric Long time existence for the wave equation with a noise term. (English summary) **98b:60113**
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Nualart, David (*with* Rozovskii, Boris L.) Weighted stochastic Sobolev spaces and bilinear SPDEs driven by space-time white noise. (English summary) **98m:60100**
— (*with* Tindel, Samy) Quasilinear stochastic hyperbolic differential equations with nondecreasing coefficient. (English summary) **98j:60088**
— *see also* **Gyöngy, István, 98m:60097**
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Pankratov, L. S. Asymptotic behavior of solutions in the second boundary value problem in domains with random thin channels. (Russian. English, Russian and Ukrainian summaries) **98g:35048**
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Vityuk, A. N. Partial averaging for partial differential inclusions of fractional orders. (Russian. Russian summary) **98i:35220**

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Kamenskiĭ, Mikhail (*with* Nistri, Paolo; Zecca, Pietro) On the periodic solutions problem for parabolic inclusions with a large parameter. **98j:34122**
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Ebanks, Bruce R. (*with* Kannappan, Palaniappan; Sahoo, Prasanna K.; Sander, Wolfgang) Characterizations of sum form information measures on open domains. (English summary) **98m:39057**
Iacob, Maria-Eugenia Divided differences and convex functions of higher order on networks. (English and Romanian summaries) **98e:39006**
Járai, A. (*with* Székelyhidi, László) Regularization and general methods in the theory of functional equations. (English summary) **98c:39006**
Kannappan, Palaniappan *see* **Ebanks, Bruce R.; et al., 98m:39057**
Sahoo, Prasanna K. *see* **Ebanks, Bruce R.; et al., 98m:39057**
Sander, Wolfgang *see* **Ebanks, Bruce R.; et al., 98m:39057**
Székelyhidi, László *see* **Járai, A., 98c:39006**

39–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 39–03

Alexander, Daniel S. An episodic history of complex dynamics from Schröder to Fatou and Julia. **98d:01027**

39–06 Proceedings, conferences, collections, etc.

(Aczél, János) *see* **Aggregating clones, colors, equations, iterates, numbers, and tiles, 98m:39001**
(Gronau, Detlef) *see* **Contributions to the theory of functional equations, 98d:39001**
(Páles, Zsolt) *see* **Contributions to the theory of functional equations, 98d:39001**
(Sikorska, Justyna) *see* **Symposium: Functional Equations**

Items listed otherwise than by author

Aggregating clones, colors, equations, iterates, numbers, and tiles ★ Aggregating clones, colors, equations, iterates, numbers, and tiles. **98m:39001**
Contributions to the theory of functional equations ★ Contributions to the theory of functional equations. II. **98d:39001**
Graz The Thirty-fifth International Symposium on Functional Equations.
Seminar:
Contributions to the Theory of Functional Equations ★ Contributions to the theory of functional equations. II. **98d:39001**
Special Issue:
Survey papers commemorating the 50th volume of Aequationes Math. ★ Aggregating clones, colors, equations, iterates, numbers, and tiles. **98m:39001**
Symposium:
Functional Equations The Thirty-fifth International Symposium on Functional Equations.
Zamárdi ★ Contributions to the theory of functional equations. II. **98d:39001**

Items with secondary classifications in 39–06

(Harnad, John) *see* **Bispectral problem, 98k:00011**
(Kasman, Alex) *see* **Bispectral problem, 98k:00011**

Items listed otherwise than by author

Bispectral problem ★ The bispectral problem. **98k:00011**
Montreal, PQ ★ The bispectral problem. **98k:00011**
Workshop:
Bispectral Problem ★ The bispectral problem. **98k:00011**

39Axx Difference equations {For dynamical systems, see 58Fxx.}

39A05 General

Items with secondary classifications in 39A05

Ronveaux, André Orthogonal polynomials: connection and linearization coefficients. (English summary) (*see* **98b:33001**)

39A10 Difference equations [see also 33Dxx]

Abdullin, R. Z. Letter to the editors: "Stability of isolated stationary points of difference equations with mixed monotonicity of the right-hand side. I, II" [Differentsial'nye Uravneniya **30** (1994), no. 3, 457–466; MR 96d:39001; ibid., no. 9, 1584–1593; MR 96k:39001]. (Russian) **98k:39001**
Agarwal, Ravi P. (*with* Manuel, M. Maria Susai; Thandapani, E.) Oscillatory and nonoscillatory behavior of second-order neutral delay difference equations. II. (English summary) **98k:39002**
— (*with* O'Regan, Donal) Boundary value problems for discrete equations. (English summary)
— (*with* O'Regan, Donal) Multipoint boundary value problems for general discrete systems: the degenerate case. (English summary) **98j:39001**
— (*with* O'Regan, Donal) Boundary value problems for general discrete systems on infinite intervals. (English summary) **98m:39002**
— (*with* Wong, Fu-Hsiang) Existence of positive solutions for nonpositive difference equations. (English summary) **98m:39003**
— (*with* Henderson, Johnny; Wong, Patricia J. Y.) On superlinear and sublinear (n, p) boundary value problems for higher order difference equations. (English summary) **98m:39004**
— (*with* Pang, Peter Y. H.) On a generalized difference system. (*see* **98i:00027**)
— *see also* **Wong, Patricia J. Y., 98a:39012; 98a:39013; 98b:39015; 98e:39005; 98f:39007; 98h:39003; Sheng, Qin, 98m:39025; Thandapani, E.; et al., 98m:39034** *and* **Pang, Peter Y. H.**
Almeida, M. A. (*with* Santos, F. C.; Moreira, I. C.) Lie symmetries of quadratic two-dimensional difference equations. (English summary) **98e:39001**
Arriola, Leon First integrals for difference equations. (*see* **98i:00028**)
Arul, R. *see* **Thandapani, E., 98m:39035**
Atakishiev, N. M. Difference equations and some of their solutions. (English summary) **98g:39001**
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Ateiwi, A. M. To the problem on periodic solutions of one class of systems of difference equations. (English and Ukrainian summaries) **98m:39005**
Bai, Jin Dong Positive nondecreasing solutions of a nonlinear difference equation. (Chinese. English and Chinese summaries) **98m:39006**
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Bohner, Martin Riccati matrix difference equations and linear Hamiltonian difference systems. (English summary) **98b:39001**
Bouyekhf, R. (*with* El-Moudni, A.) On analysis of discrete singularly perturbed non-linear systems: application to the study of stability properties. (English summary) **98h:39001**
Chen, Ju Fang *see* **Yang, Xia, 98a:39014** *and* **Xiao, Yanni; et al., 98m:39036**
Chen, Zhong Hui Bounded oscillations of solutions to a class of delay difference equations. (Chinese. English and Chinese summaries)
Cheng, Sui Sun (*with* Zhang, Bing Gen; Xie, Sheng Li) Qualitative theory of partial difference equations. IV. Forced oscillations of hyperbolic type nonlinear partial difference equations. (English summary) **98b:39002**
— (*with* Xie, Sheng Li; Zhang, Bing Gen) Qualitative theory of partial difference equations. V. Sturmian theorems for a class of partial difference equations. (English summary) **98d:39002**
— *see also* **Liu, Bin[2], 98a:39005; Zhang, Guang, 98b:39016; Zhou, Xiao Liang, 98k:39004** *and* **Liu, Shu Tang[2], 98m:39018**
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El-Fiky, Ahmed On the solution of some linear homogeneous difference equation with periodic coefficients. (English summary) **98a:39001**
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39B22 Equations for real functions

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Bukhshtaber, V. M. (*with* Perelomov, A. M.) On the functional equation related to the quantum three-body problem. (English summary) **98j:39013**

Castillo, Enrique (*with* Iglesias, Andres) A package for symbolic solution of real functional equations of real variables. (English summary) **98m:39065**

Chen, Fang Yue An accurate solution of the Feigenbaum renormalization group equation. (Chinese. English and Chinese summaries) **98g:39017**

Ebanks, Bruce R. Determination of measurable sum form information measures satisfying $(2, 2)$-additivity of degree (α, β). II. The whole story. (English and Serbo-Croatian summaries) **98m:39066**

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Kairies, Hans-Heinrich (*with* Rose, Michael Hugo) Funktionalgleichungen und Charakterisierungen für die Riemannsche Funktion. (English summary) [Functional equations and characterizations for the Riemann function] **98b:39020**
Knop, Jadwiga (*with* Kostrzewski, Tadeusz; Lupa, Maria; Wróbel, Małgorzata) On a special case of the Gołąb-Schinzel functional equation.
Koh, E. L. (*with* Ren, Gong) On the solution of the functional equation $f(x+y)+g(xy)=h(x)+k(y)$. (English summary) **98f:39018**
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Losonczi, László A structure theorem for sum form functional equations. (English summary) **98i:39006**
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Matkowski, Janusz *see* **Kahlig, Peter, 98f:39017**
Muresan, Tr. On the T. Popoviciu's functional equation. I. (English summary) **98b:39021**
Neamţu, N. About the equivalence of some functional equations. (English summary) **98m:39068**
Niango, D. N. Équation fonctionnelle de d'Alembert sur un groupe localement compact. (French summary) [The d'Alembert functional equation on a locally compact group] **98m:39069**
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Rusconi, Daniela Optimal solutions of an alternative Cauchy equation. (English summary) **98j:39014**
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Chmieliński, Jacek Remarks on real-valued quasi-isometries. (English summary) **98m:39083**
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Forti, Gian Luigi Continuous increasing weakly bisymmetric groupoids and quasi-groups in **R**. (English summary)
Gilezan, Koriolan Generalized pseudo-Boolean functional equations with general coefficients and n-variables. (English summary) **98b:39025**
Kannappan, Palaniappan On inner product spaces. I. (English summary) **98g:46025**
Morawiec, Janusz On a linear functional equation. (English summary) **98c:39009**
Moszner, Zenon Fonctions homothétiques et l'équation de translation. (French summary) [Homothetic functions and the translation equation] **98m:39062**
Neuman, František Dispersions for linear differential equations of arbitrary order. (English summary) **98d:34077**
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Pardo, María del Carmen (*with* Vajda, Igor) About distances of discrete distributions satisfying the data processing theorem of information theory. (English summary) **98m:94014**
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39B32 Equations for complex functions [see also 30D05]

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Jia, Rong Qing (*with* Lee, Seng Luan; Sharma, Ambikeshwar) Spectral properties of continuous refinement operators. (English summary) **98e:39008**
Lee, Seng Luan *see* **Jia, Rong Qing; et al., 98e:39008**
Lysenko, S. A. On the functional equation $f(p(z))=g(q(z))$, where p,q are "generalized" polynomials and f,g are meromorphic functions. (Russian. Russian summary) **98g:39019**
— On the functional equation $f(p,(z))=g(q(z))$, where f and g are meromorphic functions, and p and q are "generalized" polynomials. (Russian. English summary) **98m:39073**
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Song, Guo Dong[1] (*with* Meng, Yong) Properties of the solutions of the functional equation $f^2=e^{2\Phi_1}+e^{2\Phi_2}+e^{2\Phi_3}$. (Chinese. English and Chinese summaries) **98m:39075**
Stetkaer, Henrik Wilson's functional equation on **C**. (English summary) **98k:39016**

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Bukhshtaber, V. M. (*with* Veselov, A. P.) On a remarkable functional equation in the theory of generalized Dunkl operators and transformations of elliptic genera. **98j:57039**
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Jung, Soon-Mo Hyers-Ulam-Rassias stability of functional equations. (English summary) **99f:39067**
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Ng, C. T. *see* **Zhong, Ju Kang; et al., 98b:39026**
Niango, D. N. Équation fonctionnelle de d'Alembert sur un groupe localement compact. (French summary) [The d'Alembert functional equation on a locally compact group] **98m:39069**
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39B42 Matrix and operator equations

Berkolaiko, G. *see* **Rabinovich, Savely; et al., 98e:39009**
Havlin, S. *see* **Rabinovich, Savely; et al., 98e:39009**
Rabinovich, Savely (*with* Berkolaiko, G.; Havlin, S.) Solving nonlinear recursions. (English summary) **98e:39009**
Rätz, Jürg On Wigner's theorem: remarks, complements, comments, and corollaries. (English summary) **98b:39022**

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Ahlbrandt, Calvin D. (*with* Peterson, Allan C.) ★ Discrete Hamiltonian systems. (English summary) **98m:39043**
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Belitskii, G. Multidimensional functional equations generated by affine transformations. (English summary) **98j:47067**
Jia, Rong Qing (*with* Lee, Seng Luan; Sharma, Ambikeshwar) Spectral properties of continuous refinement operators. (English summary) **98e:39008**
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Lee, Seng Luan *see* **Jia, Rong Qing; et al., 98e:39008**
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Sharma, Ambikeshwar *see* **Jia, Rong Qing; et al., 98e:39008**

39B52 Equations for functions with more general domains and/or ranges

Bajger, Mariusz A generalized Pexider equation. **98j:39015**
Baron, Karol (*with* Rätz, Jürg) On orthogonally additive mappings on inner product spaces. (English summary) **98f:39019**
Berg, Lothar On Bourlet's functional equation. (English summary) **98m:39076**
Brzdęk, Janusz On the Cauchy difference on normed spaces. (English summary) **98b:39023**
— On the increasing solutions of the translation equation. (English summary) **98c:39010**
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Dankiewicz, Kazimierz On continuous solutions of a functional equation. (English summary) **98j:39016**
Davies, Roy O. (*with* Rousseau, George) A divided-difference characterization of polynomials over a general field. (English summary) **98m:39077**
Ebanks, Bruce R. *see* **Zhong, Ju Kang; et al., 98b:39026** *and* **98i:39010**
Fochi, Margherita D'Alembert's functional equation on restricted domains. (English summary) **98a:39024**
Ger, Roman Mazur's criterion for continuity of convex functionals. (English summary) **98b:39024**
— (*with* Sikorska, Justyna) On the Cauchy equation on spheres. (English summary) **98m:39078**
Gilezan, Koriolan Generalized pseudo-Boolean functional equations with general coefficients and n-variables. (English summary) **98b:39025**
Grabiec, Artur The stability of a generalized quadratic functional equation. (English summary) **98m:39079**
Kannappan, Palaniappan *see* **Zhong, Ju Kang; et al., 98i:39009**
Lin, Chia-Shiang (*with* Cho, Yeol Je) Additive f-bimorphisms and cosine type equations. (English summary) **98m:39080**
Moszner, Zenon (*with* Pilecka-Oborska, B.) On a generalized quadratic functional equation. (English summary) **98k:39017**
Ng, C. T. *see* **Zhong, Ju Kang; et al., 98b:39026** *and* **98i:39010**
Paganoni, Luigi (*with* Rätz, Jürg) Conditional functional equations and orthogonal additivity. (English summary) **98j:39017**
Páles, Zsolt (*with* Zeidan, Vera) Separation via quadratic functions. (English summary) **98a:39025**
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Rätz, Jürg *see* **Baron, Karol, 98f:39019** *and* **Paganoni, Luigi, 98j:39017**
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Skof, Fulvia (*with* Varone, Marcella) On the functional equation $|f(x+y)+f(x-y)| = |2f(x)+2f(y)|$. (English summary) **98m:39082**
Szabó, György[1] Pythagorean orthogonality and additive mappings. (English summary) **98i:39008**
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Zhong, Ju Kang (*with* Kannappan, Palaniappan; Sahoo, Prasanna K.) On trigonometric functional equations of rectangular type. (English summary) **98i:39009**
— (*with* Ebanks, Bruce R.; Ng, C. T.; Sahoo, Prasanna K.; Zeng, Wei Bin) Quadratic differences that depend on the product of arguments. (English summary) **98i:39010**
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Boutabaa, Abdelbaki On some p-adic functional equations. (English summary) **98g:12011**
Dvurečenskij, Anatolij Gleason's theorem and Cauchy's functional equation. (English summary) **98a:81008**
Ebanks, Bruce R. (*with* Kannappan, Palaniappan; Sahoo, Prasanna K.; Sander, Wolfgang) Characterizations of sum form information measures on open domains. (English summary) **98m:39057**
Faĭziev, Valeriĭ A. Pseudocharacters on free products of groups. (English summary)
Fan, Ai Hua Ergodicity, unidimensionality and multifractality of self-similar measures. **98f:28008**
Jung, Soon-Mo Hyers-Ulam-Rassias stability of functional equations. (English summary) **98m:39067**
— On a modified Hyers-Ulam stability of homogeneous equation. (English summary)
Kannappan, Palaniappan On inner product spaces. II. (English summary) **98g:46026**
— *see also* **Ebanks, Bruce R.; et al.**, **98m:39057**
Mayor, G. (*with* Torrens, Joan) On some classes of idempotent operators. (English summary) **98d:04002**
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Sander, Wolfgang *see* **Ebanks, Bruce R.; et al.**, **98m:39057**
Slyusarchuk, V. E. Essentially unstable solutions of difference equations. (Ukrainian. English summary) **98i:39003**
Tang, Yuan Sheng Convex solutions of the Feigenbaum functional equation. (Chinese. Chinese summary) **98g:39018**
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39B62 Systems of functional equations

Blizorukov, M. G. On the construction of solutions of linear difference systems with continuous time. (Russian. Russian summary) **98e:39010**
Forti, Gian Luigi (*with* Paganoni, Luigi) A system of functional equations related to plurality functions. A method for the construction of the solutions. (English summary) **98a:39026**
Paganoni, Luigi *see* **Forti, Gian Luigi**, **98a:39026**

Items with secondary classifications in 39B62

Kairies, Hans-Heinrich (*with* Rose, Michael Hugo) Funktionalgleichungen und Charakterisierungen für die Riemannsche Funktion. (English summary) [Functional equations and characterizations for the Riemann function] **98b:39020**
Lucht, Lutz G. Arithmetical aspects of certain functional equations. (English summary) **98m:11005**
— Arithmetical sequences and systems of functional equations. (English summary) **98h:11007**
Matkowski, Janusz (*with* Wróbel, Małgorzata) A generalized a-Wright convexity and related functional equation. (English summary) **98b:39027**
Rose, Michael Hugo *see* **Kairies, Hans-Heinrich**, **98b:39020**
Wróbel, Małgorzata *see* **Matkowski, Janusz**, **98b:39027**

39B72 Inequalities involving unknown functions [see also 26A51, 26Dxx]

Chmieliński, Jacek Remarks on real-valued quasi-isometries. (English summary) **98m:39083**
Choczewski, Bogdan (*with* Stopa, Maria) On the form of some solutions of a linear iterative functional inequality of nth order. (English summary) **98k:39018**
Găvruţă, P. On the Hyers-Ulam-Rassias stability of mappings. (English summary) (*see* **98k:00021**)
Gawel, Bolesław Some functional inequalities and their Baire category properties. (English summary) **98m:39084**
Grabiec, Artur The generalized Hyers-Ulam stability of a class of functional equations. (English summary) **98a:39027**
Hyers, Donald H. (*with* Isac, George; Rassias, Themistocles M.) On the asymptoticity aspect of Hyers-Ulam stability of mappings. (English summary) **98d:39004**
Isac, George *see* **Hyers, Donald H.; et al.**, **98d:39004**
Jung, Soon-Mo On the Hyers-Ulam-Rassias stability of the equation $f(x^2-y^2+rxy) = f(x^2)-f(y^2)+rf(xy)$. **98e:39011**
— On a modified Hyers-Ulam stability of homogeneous equation. (English summary)
Matkowski, Janusz (*with* Wróbel, Małgorzata) A generalized a-Wright convexity and related functional equation. (English summary) **98b:39027**
Mazouzi, Said A functional inequality. (English, French and Arabic summaries) **98m:39085**
Rassias, John Michael On the stability of the general Euler-Lagrange functional equation. **98g:39020**
Rassias, Themistocles M. *see* **Hyers, Donald H.; et al.**, **98d:39004**
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Tabor, Jacek Stability of the Cauchy equation with variable bound. (English summary) **98m:39086**
Valenti, Santi A uniqueness theorem equivalent to the induction principle. (Italian. English summary) **98f:39020**
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Ger, Roman Mazur's criterion for continuity of convex functionals. (English summary) **98b:39024**
— (*with* Sikorska, Justyna) On the Cauchy equation on spheres. (English summary) **98m:39078**
Jung, Soon-Mo Hyers-Ulam-Rassias stability of functional equations. (English summary) **98m:39067**
Liu, Li Shan On an open problem of Th. M. Rassias. (Chinese. English and Chinese summaries) **98h:47088**
Salem, Shaban On some systems of two discrete inequalities of Gronwall type. (English summary) **98b:26016**
Sikorska, Justyna *see* **Ger, Roman**, **98m:39078**

39B99 None of the above, but in this section

Aczél, János (*with* Maksa, Gyula) Consistent aggregation and generalized bisymmetry. (*see* **98d:39001**)
Maksa, Gyula *see* **Aczél, János**, (**98d:39001**)
Subrahmanyam, P. V. (*with* Sudarsanam, S. K.) On the integrable solution of a class of fuzzy functional equations. (English summary) **98d:39005**
Sudarsanam, S. K. *see* **Subrahmanyam, P. V.**, **98d:39005**

Items with secondary classifications in 39B99

Buche, A. B. *see* **Khaparde, M. V.**, **98b:60177**
Khaparde, M. V. (*with* Buche, A. B.) Non-Markov functional equations. (English summary) **98b:60177**
Losonczi, László A structure theorem for sum form functional equations. (English summary) **98i:39006**
Sartabanov, Zh. Multiperiodic solutions of a nonlinear system of functional-difference equations. (Russian. English, Russian and Kazakh summaries) **98f:39016**

40–XX Sequences, series, summability

40–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 40–03

Baltus, Christopher Asymptotic series and continued fractions: Stieltjes and after. **98b:01020**

Guinot, Marc ★ Arithmétique pour amateurs (par un autodidacte). Livre III. (French. French summary) [Arithmetic for amateurs (by an autodidact). Book III] **98a:11003**

(Kuttner, Brian) *see* **Maddox, Ivor J., 98h:01029**

Maddox, Ivor J. Obituary: Brian Kuttner. **98h:01029**

Massa, Ma. Rosa Mengoli on "quasi proportions". (English, French and Spanish summaries) **98i:01011**

(Mengoli, Pietro) *see* **Massa, Ma. Rosa, 98i:01011**

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

Berinde, Vasile (*with* Sándor, József) On the generalized ratio test. (English summary)

Cui, Qiang A generalization of a proposition on an equivalent condition for infinitesimals. (Chinese)

Daróczy, Zoltán Über die Rudin-Shapiro Folge. [On the Rudin-Shapiro sequence] (*see* **98d:39001**)

Dutta, Chandana *see* **Ganguly, D. K., 98m:40001**

Finta, Béla A criterion for the convergence of series.

Ganguly, D. K. (*with* Dutta, Chandana) Some results on subseries of divergent series. **98m:40001**

Kostyrko, Pavel On convergence preserving transformations of infinite series. (English summary) **98a:40001**

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Zhang, Rong (*with* Wang, Li) Two convergence problems for monotone sequences. (English summary) **98e:40001**

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Borwein, David (*with* Borwein, Jonathan M.; Pinner, Christopher G.) Convergence of Madelung-like lattice sums. (English summary) **98k:11135**

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Fridy, J. A. (*with* Orhan, C.) Statistical core theorems. (English summary) **98c:40004**

— (*with* Orhan, C.) Statistical limit superior and limit inferior. (English summary) **98c:40003**

Hoffman, Michael E. (*with* Moen, Courtney) Sums of triple harmonic series. (English summary) **98a:11113**

Moen, Courtney *see* **Hoffman, Michael E., 98a:11113**

Orhan, C. *see* **Fridy, J. A., 98c:40003** *and* **98c:40004**

Pehlivan, Serpil On X-valued sequence spaces. (English summary) **98d:40008**

Pinner, Christopher G. *see* **Borwein, David; et al., 98k:11135**

Reimer, Manfred Radon-transform, Laplace-series and matrix-transforms. (English summary) **98d:44002**

Saeki, Sadahiro *see* **Youvaraj, G. P., 98k:42049**

Shim, Hong-Tae Convergence of wavelet expansions at discontinuity. **98b:41021**

Sidi, Avram Further results on convergence and stability of a generalization of the Richardson extrapolation process. (English summary) **98f:65006**

Tripathy, B. C. Matrix transformation between some classes of sequences. **98c:40005**

Youvaraj, G. P. (*with* Saeki, Sadahiro) Kolmogorov's rearrangement problem—with respect to some summability methods. (English summary) **98k:42049**

40A10 Convergence and divergence of integrals

Items with secondary classifications in 40A10

Dagnino, C. (*with* Rabinowitz, Philip) Product integration of singular integrands using quasi-interpolatory splines. (English summary) **98b:41008**

Fitt, A. D. When Tuck's double integral which should (?) vanish does. (English summary) **98e:26015**

Rabinowitz, Philip *see* **Dagnino, C., 98b:41008**

40A15 Convergence and divergence of continued fractions [see also 30B70]

Gill, John The analogy between periodic continued fractions & geometric series. **98j:40001**

Iosifescu, Marius On the Gauss-Kuzmin-Lévy theorem. II. (English summary) **98a:40002**

Shapira, Yair Algebraic interpretation of continued fractions. (English summary) **98e:40002**

Sus', O. N. Some local properties of two-dimensional continued fractions. (English summary) **98a:40003**

Trzaska, Zdzisław W. On links between continued fractions and modified numerical triangles. (English summary) **98d:40001**

— Two-variable polynomials and related continued fractions. (English summary) **98f:40001**

Items with secondary classifications in 40A15

Barrlund, A. (*with* Wallin, Hans; Karlsson, Johan) Iteration of Möbius transformations and attractors on the real line. (English summary) **98d:30037**

Fédou, Jean-Marc (*with* Roblet, Emmanuel; Viennot, Xavier Gérard) An identity on Thron's dual continued fractions. (English and French summaries) **98m:05014**

Karlsson, Johan *see* **Barrlund, A.; et al., 98d:30037**

Kuchminskaya, Kh. I. On the "fork" property for two-dimensional continued fractions. (English summary)

Kupershmidt, B. A. On a sequence of continued fractions of Ramanujan and their q-analogs. **98e:11009**

Petersen, Vigdis Szegő polynomials in frequency analysis. Observations on speed of convergence. **98f:94004**

Roblet, Emmanuel *see* **Fédou, Jean-Marc; et al., 98m:05014**

Viennot, Xavier Gérard *see* **Fédou, Jean-Marc; et al., 98m:05014**

Wallin, Hans *see* **Barrlund, A.; et al., 98d:30037**

40A20 Convergence and divergence of infinite products

Items with secondary classifications in 40A20

Dagnino, C. (*with* Rabinowitz, Philip) Product integration of singular integrands using quasi-interpolatory splines. (English summary) **98b:41008**

Rabinowitz, Philip *see* **Dagnino, C., 98b:41008**

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

Helmberg, Gilbert Estimating the sum of alternating series with a convexity property. (English summary) **98i:40001**

Hsu, Leetsch Charles On a problem of summing a kind of higher-order arithmetic-geometric progression. (Chinese. English and Chinese summaries) **98a:40004**

MacDonald, Duncan Anthony A note on the summation of slowly convergent alternating series. (English summary) **98c:40001**

Items with secondary classifications in 40A25

Balser, Werner Moment methods and formal power series. (English summary) **98m:34114**

40A30 Convergence and divergence of series and sequences of functions

Drewnowski, Lech (*with* Labuda, Iwo) Lacunary convergence of series in L_0. (English summary) **98g:40001**

El-Adad, El-Sayed El-Sayed Abd El-Aal About Riesz summability of multiple Hermite series. **98a:40005**

Gill, John Convergence of composition sequences of bilinear and other transformations $\{f_n\}$, $f_n \to z$. (English summary) **98c:40002**

Labuda, Iwo *see* **Drewnowski, Lech, 98g:40001**

Items with secondary classifications in 40A30

Božin, Vladimir *see* **Durčić, Dragan, 98k:26004**

Dindoš, Martin Limits of transfinite convergent sequences of derivatives. (English summary) **98b:03071**

Durčić, Dragan (*with* Božin, Vladimir) A proof of an Aljančić hypothesis on $\mathscr{O}$-regularly varying sequences. (English summary) **98k:26004**

Zhu, Kehe Interpolating and recapturing in reproducing Hilbert spaces. (English summary) **98h:41019**

40A99 None of the above, but in this section

Berg, Lothar On an entry of Ramanujan concerning divergent series. (English summary) **98d:40002**

Sizer, Walter S. (*with* Wiredu, E. K.) Convergence of some continued roots in the complex plane. **98d:40003**

Wiredu, E. K. *see* **Sizer, Walter S., 98d:40003**

Items with secondary classifications in 40A99

Brüning, Erwin A. K. How to reconstruct an analytic function from its asymptotic expansion? (English summary) **98a:30044**

Natarajan, P. N. On a generalized product of certain sequences over non-Archimedean fields. II. (English summary) **98f:46064**

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Butković, Davor On regular almost convergence. (English and Serbo-Croatian summaries) **98a:40006**

Yang, Bi Cheng A note on the general Hilbert double series theorem. (Chinese. English and Chinese summaries) **98k:40001**

40Cxx General summability methods

40C05 Matrix methods

Ahmad, Z. U. (*with* Qamaruddin) Knopp's core-like theorems. (English summary) **98m:40002**

— (*with* Khan, Q. A.) Generalized almost convergence and Knopp's core theorem. (English summary) **98b:40001**
Başarir, Metin (*with* Et, Mikail) On matrix sequences on cs and bs. (English summary) **98f:40002**
Et, Mikail *see* **Başarir, Metin**, **98f:40002**
Fridy, J. A. Noninclusion theorems for summability matrices. (English summary) **98f:40003**
— (*with* Orhan, C.) Statistical core theorems. (English summary) **98c:40004**
— (*with* Orhan, C.) Statistical limit superior and limit inferior. (English summary) **98c:40003**
Khan, Q. A. *see* **Ahmad, Z. U.**, **98b:40001**
Orhan, C. *see* **Fridy, J. A.**, **98c:40003** *and* **98c:40004**
Qamaruddin *see* **Ahmad, Z. U.**, **98m:40002**
Sirajudeen, S. M. (*with* Sulaiman, A.) Matrix transformations of some sequence spaces over non-Archimedian fields. (English summary) **98a:40007**
Sulaiman, A. *see* **Sirajudeen, S. M.**, **98a:40007**
Tripathy, B. C. Matrix transformation between some classes of sequences. **98c:40005**

Items with secondary classifications in 40C05

Balser, Werner (*with* Beck, Andreas) Necessary and sufficient conditions for matrix summability methods to be stronger than multisummability. (English and French summaries) **98e:40004**
Barbeau, Edward J. (*with* Chew, John; Tanny, Stephen) A matrix dynamics approach to Golomb's recursion. (English summary) **98k:11016**
Başar, Feyzi Matrix sequences and certain spaces of double sequences. (English summary) **98g:46009**
Beck, Andreas *see* **Balser, Werner**, **98e:40004**
Brück, Rainer Efficient summability of interpolatory polynomials in the roots of unity. (English summary) **98h:30055**
Çakalli, H. (*with* Çanak, G.) (P_n, s)-absolute almost convergent sequences. (English summary) **98h:40002**
Çanak, G. *see* **Çakalli, H.**, **98h:40002**
Chew, John *see* **Barbeau, Edward J.; et al.**, **98k:11016**
Coşkun, Cafer On the spectrum of weighted mean matrices on bv. (English summary) **98h:47038**
Khan, Mushir A. (*with* Qamaruddin) Some generalized sequence spaces and related matrix transformations. (English summary) **98g:46010**
Qamaruddin *see* **Khan, Mushir A.**, **98g:46010**
Rath, D. (*with* Tripathy, B. C.) Matrix maps on sequence spaces associated with sets of integers. (English summary) **98c:46009**
Saeki, Sadahiro *see* **Youvaraj, G. P.**, **98k:42049**
Tanny, Stephen *see* **Barbeau, Edward J.; et al.**, **98k:11016**
Tripathy, B. C. *see* **Rath, D.**, **98c:46009**
Youvaraj, G. P. (*with* Saeki, Sadahiro) Kolmogorov's rearrangement problem—with respect to some summability methods. (English summary) **98k:42049**

40C10 Integral methods

Rhoades, B. E. Bounded sequence-to-function generalized Hausdorff transformations. (English summary) **98g:40002**
Tietz, Hubert (*with* Zeller, Karl) Totalvergleich und Äquivalenz der Integralverfahren von Hölder und Cesàro. Positive Operatoren. (English summary) [Total comparison and equivalence of the integral procedures of Hölder and Cesàro. Positive operators] **98d:40004**
Zeller, Karl *see* **Tietz, Hubert**, **98d:40004**

40Dxx Direct theorems on summability

40D05 General theorems

Çakar, Öner *see* **Orhan, C.**, **98e:40003**
Orhan, C. (*with* Çakar, Öner) Some inclusion theorems for absolute summability. **98e:40003**

Items with secondary classifications in 40D05

Ştefănoiu, Dan Une théorie de la structure multirésolutive discrète. I. Bases canoniques d'ondelettes discrètes orthogonales. (French summary) [A theory of discrete multiresolution structures. I. Canonical bases of discrete orthogonal wavelets] **98h:42033**

40D09 Structure of summability fields

Items with secondary classifications in 40D09

Butković, Davor On regular almost convergence. (English and Serbo-Croatian summaries) **98a:40006**

40D15 Convergence factors and summability factors

Items with secondary classifications in 40D15

Jardas, Cvetan (*with* Pečarić, Josip E.; Sarapa, Nikola) A note on Chung's strong law of large numbers. (English summary) **98m:60044**
Pečarić, Josip E. *see* **Jardas, Cvetan; et al.**, **98m:60044**
Sarapa, Nikola *see* **Jardas, Cvetan; et al.**, **98m:60044**
Sulaiman, W. T. A study of some new absolute summability methods. (English summary) **98d:40006**
— On a general theorem concerning some absolute summability methods. (English summary) **98f:40006**

40D25 Inclusion and equivalence theorems

Balser, Werner (*with* Beck, Andreas) Necessary and sufficient conditions for matrix summability methods to be stronger than multisummability. (English and French summaries) **98e:40004**
Beck, Andreas *see* **Balser, Werner**, **98e:40004**

Items with secondary classifications in 40D25

Fridy, J. A. Noninclusion theorems for summability matrices. (English summary) **98f:40003**
Mazhar, S. M. Some remarks on absolute summability methods. (English summary) **98c:40006**
Savas, Ekrem Sequence spaces defined by infinite matrices and statistical convergence. **98g:46011**
Tietz, Hubert (*with* Zeller, Karl) Totalvergleich und Äquivalenz der Integralverfahren von Hölder und Cesàro. Positive Operatoren. (English summary) [Total comparison and equivalence of the integral procedures of Hölder and Cesàro. Positive operators] **98d:40004**
Zeller, Karl *see* **Tietz, Hubert**, **98d:40004**

40D99 None of the above, but in this section

Items with secondary classifications in 40D99

Božin, Vladimir *see* **Durčić, Dragan**, **98k:26004**
Durčić, Dragan (*with* Božin, Vladimir) A proof of an Aljančić hypothesis on $\mathcal{O}$-regularly varying sequences. (English summary) **98k:26004**
Stuart, Christopher E. Weak sequential completeness of β-duals. **98g:46012**

40Exx Inversion theorems

40E05 Tauberian theorems, general

Feichtinger, Hans G. Amalgam spaces and generalized harmonic analysis. (English summary) **98e:40005**
Maddox, Ivor J. Weighted means and infinite limits. (English summary) **98f:40004**
Natarajan, P. N. Some Tauberian theorems in non-Archimedean fields. (English summary) **98f:40005**
Tietz, Hubert (*with* Zeller, Karl) Tauber-Sätze für bewichtete Mittel. (German summary) [Tauberian theorems for weighted means] **98d:40005**
Zeller, Karl *see* **Tietz, Hubert**, **98d:40005**

Items with secondary classifications in 40E05

Báez-Duarte, Luis Hardy-Ramanujan's asymptotic formula for partitions and the central limit theorem. (English summary) **98b:60036**
Balasubramanian, T. *see* **Chandrasekhara Rao, K.**, **98b:46012**
Baron, Simon (*with* Stadtmüller, U.) Tauberian theorems for power series methods applied to double sequences. (English summary) **98f:40007**
Carleson, Lennart Wiener's Tauberian theorem. **98k:43004**
Chandrasekhara Rao, K. (*with* Balasubramanian, T.) Some classes of entire sequences. (English summary) **98b:46012**
Lau, Ka-Sing A weighted Tauberian theorem. (English summary) **98a:42005a**
— Erratum: "A weighted Tauberian theorem". **98a:42005b**
Stadtmüller, U. *see* **Baron, Simon**, **98f:40007**

40E99 None of the above, but in this section

Items with secondary classifications in 40E99

Božin, Vladimir *see* **Durčić, Dragan**, **98k:26004**
Durčić, Dragan (*with* Božin, Vladimir) A proof of an Aljančić hypothesis on $\mathcal{O}$-regularly varying sequences. (English summary) **98k:26004**

40F05 Absolute and strong summability

Çakalli, H. (*with* Çanak, G.) (P_n, s)-absolute almost convergent sequences. (English summary) **98h:40002**
Çanak, G. *see* **Çakalli, H.**, **98h:40002**
Mazhar, S. M. Some remarks on absolute summability methods. (English summary) **98c:40006**
Sulaiman, W. T. A study of some new absolute summability methods. (English summary) **98d:40006**
— On the relative strength of an absolute summability method. **98m:40003**
— A study on absolute weighted mean summability method. (English summary) **98m:40004**
— On a general theorem concerning some absolute summability methods. (English summary) **98f:40006**

Items with secondary classifications in 40F05

Ahmad, Z. U. (*with* Gaur, A. K.; Chishti, T. A.) On some new sequence spaces of invariant means. **98c:46035**
Çakar, Öner *see* **Orhan, C.**, **98e:40003**
Chishti, T. A. *see* **Ahmad, Z. U.; et al.**, **98c:46035**
Fridli, S. (*with* Schipp, Ferenc) Strong summability and Sidon type inequalities. (English summary) **98f:42002**
Gaur, A. K. *see* **Ahmad, Z. U.; et al.**, **98c:46035**
Orhan, C. (*with* Çakar, Öner) Some inclusion theorems for absolute summability. **98e:40003**
Przybylski, Bronisław On summability methods defined by sequential matrix methods and those defined by the iteration products of matrix transformations. (English and Polish summaries) **98e:40006**

Schipp, Ferenc *see* **Fridli, S., 98f:42002**

40Gxx Special methods of summability

Items with secondary classifications in 40Gxx

Kahane, Jean-Pierre (*with* Queffelec, Hervé) Ordre, convergence et sommabilité de produits de séries de Dirichlet. (English summary) [Order, convergence and summability of products of Dirichlet series] **98g:11102**
Queffelec, Hervé *see* **Kahane, Jean-Pierre, 98g:11102**

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

Baron, Simson (*with* Stadtmüller, U.) Tauberian theorems for power series methods applied to double sequences. (English summary) **98f:40007**
Bor, Hüseyin On $|\overline{N}, p_n; \delta|_k$ summability factors of infinite series. (English summary) **98m:40005**
Jajte, Ryszard On summability methods generated by R-integrable functions. (English and Polish summaries) **98c:40007**
Kashyap, Sadhana *see* **Sharma, Manisha, 98c:40008**
Sharma, Manisha (*with* Kashyap, Sadhana) On absolute Nörlund summability of factored Jacobi series. (Hindi. English and Hindi summaries) **98c:40008**
Stadtmüller, U. *see* **Baron, Simson, 98f:40007**

Items with secondary classifications in 40G05

Miyamoto, Ikuko (*with* Okuyama, Yasuo) On Nörlund summability of Legendre series. (English summary)
Okuyama, Yasuo *see* **Miyamoto, Ikuko**
Rath, D. (*with* Tripathy, B. C.) Matrix maps on sequence spaces associated with sets of integers. (English summary) **98c:46009**
Rhoades, B. E. Matrix transformation of identically distributed random variables. (English summary) **98m:60033**
— Bounded sequence-to-function generalized Hausdorff transformations. (English summary) **98g:40002**
Singh, S. R. *see* **Srivastava, Rajneesh Kumar, 98k:42034**
Srivastava, Rajneesh Kumar (*with* Singh, S. R.) On the Nörlund summability of Legendre series. (English summary) **98k:42034**
Sulaiman, W. T. On the relative strength of an absolute summability method. **98m:40003**
— A study on absolute weighted mean summability method. (English summary) **98m:40004**
— On a general theorem concerning some absolute summability methods. (English summary) **98f:40006**
Tietz, Hubert (*with* Zeller, Karl) Totalvergleich und Äquivalenz der Integralverfahren von Hölder und Cesàro. Positive Operatoren. (English summary) [Total comparison and equivalence of the integral procedures of Hölder and Cesàro. Positive operators] **98d:40004**
Tripathi, L. M. (*with* Tripathi, V. N.) On double Nörlund summability of Jacobi series. (English summary) **98j:42015**
Tripathi, V. N. *see* **Tripathi, L. M.; 98j:42015**
Tripathy, B. C. *see* **Rath, D., 98c:46009**
Zeller, Karl *see* **Tietz, Hubert, 98d:40004**

40G10 Abel, Borel and power series methods

Baron, Simson (*with* Tietz, Hubert) Indexverschiebung bei Potenzreihenverfahren zur Limitierung von Doppelfolgen. (English summary) [Index shifting in power series for the limitation of double sequences] **98f:40008**
Sinnadurai, J. St. C. L. On a theorem on Borel summability. (English summary) **98j:40002**
Tietz, Hubert *see* **Baron, Simson, 98f:40008**

Items with secondary classifications in 40G10

Balser, Werner (*with* Beck, Andreas) Necessary and sufficient conditions for matrix summability methods to be stronger than multisummability. (English and French summaries) **98e:40004**
Beck, Andreas *see* **Balser, Werner, 98e:40004**
Calderón, Calixto P. (*with* Vera de Serio, Virginia N.) Abel summability of Jacobi type series. **98g:42043**
Caliceti, E. (*with* Grecchi, Vincenzo; Maioli, M.) Perturbation theory, Borel summability, and asymptotics. (English summary) **98a:81039**
Das, Gokulananda (*with* Ojha, Akshay Kumar; Ray, Braja Kishore) Degree of approximation of functions in the Hölder metric by Borel's means. (English summary) **98f:41016**
Grecchi, Vincenzo *see* **Caliceti, E.; et al., 98a:81039**
Maioli, M. *see* **Caliceti, E.; et al., 98a:81039**
Ojha, Akshay Kumar *see* **Das, Gokulananda; et al., 98f:41016**
Ray, Braja Kishore *see* **Das, Gokulananda; et al., 98f:41016**
Vera de Serio, Virginia N. *see* **Calderón, Calixto P., 98g:42043**

40G99 None of the above, but in this section

Items with secondary classifications in 40G99

Ahmad, Z. U. (*with* Gaur, A. K.; Chishti, T. A.) On some new sequence spaces of invariant means. **98c:46035**
Çakalli, H. (*with* Çanak, G.) (P_n, s)-absolute almost convergent sequences. (English summary) **98h:40002**
Çanak, G. *see* **Çakalli, H., 98h:40002**
Chishti, T. A. *see* **Ahmad, Z. U.; et al., 98c:46035**
Gaur, A. K. *see* **Ahmad, Z. U.; et al., 98c:46035**
Jajte, Ryszard On summability methods generated by R-integrable functions. (English and Polish summaries) **98c:40007**
Maddox, Ivor J. Weighted means and infinite limits. (English summary) **98f:40004**
Sulaiman, W. T. A study of some new absolute summability methods. (English summary) **98d:40006**
Tietz, Hubert (*with* Zeller, Karl) Tauber-Sätze für bewichtete Mittel. (German summary) [Tauberian theorems for weighted means] **98d:40005**
Zeller, Karl *see* **Tietz, Hubert, 98d:40005**

40H05 Functional analytic methods in summability

Bilgin, Tunay Strong A_σ-summability defined by a modulus. (English and Turkish summaries) **98a:40008**
Malkowsky, Eberhard Linear operators in certain BK spaces. (English summary) **98d:40007**
— (*with* Parashar, S. D.) Matrix transformations in spaces of bounded and convergent difference sequences of order m. (English summary) **98f:40009**
— Recent results in the theory of matrix transformations in sequence spaces. (English summary) **98m:40006**
Parashar, S. D. *see* **Malkowsky, Eberhard, 98f:40009**
Pehlivan, Serpil On X-valued sequence spaces. (English summary) **98d:40008**
Przybylski, Bronisław On summability methods defined by sequential matrix methods and those defined by the iteration products of matrix transformations. (English and Polish summaries) **98e:40006**

Items with secondary classifications in 40H05

Ahmad, Z. U. (*with* Chishti, T. A.) Some spaces of lacunary sequences defined by the modulus. (English summary) **98f:46006**
— Generalized spaces of difference sequences. (English summary) **98g:46008**
Balasubramanian, T. *see* **Chandrasekhara Rao, K., 98b:46012**
Chandrasekhara Rao, K. (*with* Balasubramanian, T.) Some classes of entire sequences. (English summary) **98b:46012**
Chishti, T. A. *see* **Ahmad, Z. U., 98f:46006**
Ecalle, Jean (*with* Vallet, Bruno) Passive and active resonance. Non-linear resurgence and isoresurgent deformations. (English summary) **98e:58148**
Khan, F. M. (*with* Khan, Mushir A.) $\sigma(A)$-boundedness and absolute σ-summability. (English summary)
Khan, Mushir A. (*with* Qamaruddin) Some generalized sequence spaces and related matrix transformations. (English summary) **98g:46010**
— *see also* **Khan, F. M.**
Menous, Frédéric The well-behaved Catalan and Brownian averages and their applications to real resummation. (English summary) **98g:30007**
Qamaruddin *see* **Khan, Mushir A., 98g:46010**
Ruckle, William H. *see* **Saxon, Stephen A., 98c:46041**
Saxon, Stephen A. (*with* Ruckle, William H.) Reducing the classical multipliers l^∞, c_0 and bv_0. (English summary) **98c:46041**
Sirajudeen, S. M. (*with* Sulaiman, A.) Matrix transformations of some sequence spaces over non-Archimedian fields. (English summary) **98a:40007**
Somasundaram, D. Matrix transformations of some generalised sequence spaces. (English summary)
Stuart, Christopher E. Weak sequential completeness of β-duals. **98g:46012**
Sulaiman, A. *see* **Sirajudeen, S. M., 98a:40007**
Vallet, Bruno *see* **Ecalle, Jean, 98e:58148**

40J05 Summability in abstract structures [see also 43A55, 46A35, 46B15]

Çakalli, H. Conservative series methods on complete topological groups. (English summary)

Items with secondary classifications in 40J05

Ahmad, Z. U. (*with* Gaur, A. K.; Saifi, A. H.) Some new sequence spaces: their duals and matrix transformations. (English summary) **98c:46008**
— (*with* Qamaruddin) Knopp's core-like theorems. (English summary) **98m:40002**
— (*with* Khan, Q. A.) Generalized almost convergence and Knopp's core theorem. (English summary) **98b:40001**
Bilgin, Tunay Strong A_σ-summability defined by a modulus. (English and Turkish summaries) **98a:40008**
Choudhury, Ajanta *see* **Das, N. R.; et al., 98c:46165**
Das, N. R. (*with* Das, Pankaja; Choudhury, Ajanta) Absolute value like fuzzy real number and fuzzy real-valued sequence space. (English summary) **98c:46165**
Das, Pankaja *see* **Das, N. R.; et al., 98c:46165**
Gaur, A. K. *see* **Ahmad, Z. U.; et al., 98c:46008**
Kara, H. Generalized sequence spaces. (English summary)
Khan, Q. A. *see* **Ahmad, Z. U., 98b:40001**
Maddox, Ivor J. Weighted means and infinite limits. (English summary) **98f:40004**
Qamaruddin *see* **Ahmad, Z. U., 98m:40002**
Ratha, A. Continuous linear functionals and operators on some vector sequence spaces. (English summary) **98j:46006**
— Some vector sequence spaces and bounded linear operators. (English summary) **98j:46005**
Saifi, A. H. *see* **Ahmad, Z. U.; et al., 98c:46008**

41–XX Approximations and expansions {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.}

41–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 41–01

Chang, Gengzhe (*with* Sederberg, Thomas W.) ★ Over and over again. (English summary) **98i:00001**
Sederberg, Thomas W. *see* **Chang, Gengzhe**, **98i:00001**

41–02 Research exposition (monographs, survey articles)

Kawasaki, Hidefumi Optimization and best approximation [translation of Sūgaku **46** (1994), no. 2, 112–123]. (*see* **98f:00033**)

Items with secondary classifications in 41–02

Boyanov, Borislav D. Total positivity of the spline kernel and its applications. (English summary) **98a:41014**
Mhaskar, H. N. ★ Introduction to the theory of weighted polynomial approximation. **98i:41014**
Zheludev, V. A. Local splines of defect 1 on a uniform mesh. (English summary) **98e:41014**

41–03 Historical (must also be assigned at least one classification number from Section 01)

Arestov, V. V. (*with* Berdyshev, V. I.; Subbotin, Yu. N.; Chernykh, N. I.) S. B. Stechkin and approximation theory. (Russian) **98m:41001**
Berdyshev, V. I. *see* **Arestov, V. V.; et al.**, **98m:41001**
Chernykh, N. I. *see* **Arestov, V. V.; et al.**, **98m:41001**
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Gasca, M. Spline functions and total positivity. (English summary) **98b:41011**
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41–06 Proceedings, conferences, collections, etc.

(Blaga, Petru P.) *see* **Approximation and optimization**, **98g:41001** *and* **98g:41002**
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Workshop:
Recent Developments in Schur Analysis ★ Topics in interpolation theory. **98f:47001**

41A05 Interpolation [see also 42A15 and 65D05]

Abramchuk, V. S. (*with* Lyashko, S. I.; Skopets'kiĭ, V. V.) Generalized interpolation polynomials. (Russian. English and Ukrainian summaries) **98k:41001**
Bajpai, Priti Lacunary interpolation on Laguerre abscissas. (English summary) **98k:41002**
Basios, V. (*with* Bonushkina, A. Yu.; Ivanov, Victor Vladimirovich) A method for approximating one-dimensional functions. (English summary) (*see* **98i:00017**)
Bloom, Thomas (*with* Calvi, Jean-Paul) A continuity property of multivariate Lagrange interpolation. (English summary) **98a:41001**
Bonushkina, A. Yu. *see* **Basios, V.; et al.**, (**98i:00017**)
de Boor, Carl A multivariate divided difference. (English summary) **98k:41003**
Bos, Len (*with* Calvi, Jean-Paul) Kergin interpolants at the roots of unity approximate C^2 functions. (English summary) **98j:41001**
Brutman, Lev (*with* Passow, Eli) On a divided differences problem. **98k:41004**
Calvi, Jean-Paul *see* **Bloom, Thomas**, **98a:41001** *and* **Bos, Len**, **98j:41001**
Capobianco, Maria Rosaria (*with* Russo, M. G.) Extended interpolation in some Sobolev-type spaces. (English summary) **98d:41003**
— (*with* Mastroianni, Giuseppe) Uniform boundedness of Lagrange operator in some weighted Sobolev-type space. (English summary) **98e:41001**
Carnicer, J. M. (*with* Floater, Michael S.) Piecewise linear interpolants to Lagrange and Hermite convex scattered data. (English summary) **98k:41005**
Davydov, O. V. On almost interpolation. (English summary) **98m:41002**
Della Vecchia, B. (*with* Mastroianni, Giuseppe; Vértesi, Péter) Mean convergence of extended Hermite interpolation of higher order. (English summary) **98b:41001**
Dyn, Nira (*with* Narcowich, Francis J.; Ward, Joseph D.) A framework for interpolation and approximation on Riemannian manifolds. (English summary) **98m:41003**
Ermolaeva, L. B. *see* **Gabdulkhaev, B. G.**, **98i:41001**
Filipsson, Lars Complex mean-value interpolation and approximation of holomorphic functions. (English summary) **98k:41006**
Floater, Michael S. *see* **Carnicer, J. M.**, **98k:41005**
Gabdulkhaev, B. G. (*with* Ermolaeva, L. B.) Lagrange interpolation polynomials in Sobolev spaces. (Russian) **98i:41001**
Gal, Sorin G. Interpolation of fuzzy mappings. **98m:41004**
Gopengauz, I. E. Pointwise estimates of the trigonometric interpolation. **98m:41005**
Gzyl, Henryk (*with* Palacios, José Luis) The Weierstrass approximation theorem and large deviations. **98h:41001**
Háy, B. (*with* Pasquini, Lionello; Vértesi, Péter) A remark on p-normal matrices.
Ivanov, Victor Vladimirovich *see* **Basios, V.; et al.**, (**98i:00017**)
Kaklis, P. D. (*with* Karavelas, M. I.) Shape-preserving interpolation in $\mathbb{R}^3$. (English summary) **98h:41002**
Karavelas, M. I. *see* **Kaklis, P. D.**, **98h:41002**
Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich**, **98k:41007**
Lai, Ming-Jun On C^2 quintic spline functions over triangulations of Powell-Sabin's type. (English summary) **98a:41002**
Light, W. A. (*with* Wayne, Henry) On power functions and error estimates for radial basis function interpolation. (English summary) **98m:41006**
Lyashko, S. I. *see* **Abramchuk, V. S.; et al.**, **98k:41001**
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Milev, Lozko (*with* Nikolov, Geno) On the inequality of I. Schur. (English summary) **98m:41007**
Narcowich, Francis J. *see* **Dyn, Nira; et al.**, **98m:41003**
Nevai, Paul (*with* Shi, Ying Guang) Notes on Steklov's conjecture in L^p and on divergence of Lagrange interpolation in L^p. (English summary) **98d:41004**
Nikolov, Geno *see* **Milev, Lozko**, **98m:41007**
Pál, L. G. A general lacunary (0; 0, 1) interpolation process. **98k:41008**
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Russo, M. G. *see* **Capobianco, Maria Rosaria**, **98d:41003**
Schaback, Robert (*with* Wu, Zongmin) Construction techniques for highly accurate quasi-interpolation operators. (English summary) **98i:41002**

Shang, Zeng Ke (*with* Sheng, Bao Huai) Approximation of certain generalized interpolation in $L_p^{2\pi}$ and $L_{p(R)}$ spaces. (English and Chinese summaries)
Sheng, Bao Huai *see* **Shang, Zeng Ke**
Shi, Ying Guang On an extremal problem concerning interpolation. (English summary) **98d:41005**
— *see also* **Nevai, Paul**, **98d:41004**
Shrivastava, Manjulata Convergence of a class of quartic interpolatory splines. (English summary) **98b:41002**
Sivakumar, N. A note on the Gaussian cardinal-interpolation operator. (English summary) **98a:41003**
Skopets'kiĭ, V. V. *see* **Abramchuk, V. S.; et al.**, **98k:41001**
Szabó, V. E. S. On Pál-type interpolation processes. **98i:41003**
Szili, László Weighted $(0, 2)$-interpolation on the roots of the classical orthogonal polynomials. (English summary) **98h:41003**
— A survey on $(0, 2)$ interpolation. (English summary) **98b:41003**
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Vasil'ev, Stanislav Nikolaevich Interpolation by fractal functions preserving monotonicity and convexity. (English summary) **98m:41008**
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— Integral error formulæ for the scale of mean value interpolations which includes Kergin and Hakopian interpolation. (English summary) **98e:41002**
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Xie, Siqing Regularity of $(0, 1, \cdots, r-2, r)^*$ interpolation on the unit circle. (English summary) **98a:41004**
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Blatt, Hans-Peter (*with* Mhaskar, H. N.) A discrepancy theorem concerning polynomials of best approximation in $L_w^p[-1, 1]$. (English summary) **98a:41038**
Boche, H. Ein Problem von A. Papoulis zu den Shannonschen Abtastreihen. [A problem of A. Papoulis on Shannon's sampling series] **98g:94003**
Brück, Rainer Extensions of Walsh's equiconvergence theorem for Jordan domains with analytic boundary curve. **98e:30040**
Brutman, Lev (*with* Toledano, D.) An extremal problem of Erdős in interpolation theory. (English summary) **98j:65006**
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Cheney, E. W. Approximation using positive definite functions. (English summary) **98e:41036**
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— (*with* Sommer, Manfred; Strauss, Hans) Locally linearly independent systems and almost interpolation. (English summary) **98k:41016**
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Lesky, Peter A. Das Gröbnerverfahren für Orthogonalpolynome vom Sobolev-Typ. [The Gröbner method for orthogonal polynomials of Sobolev type]
— (*with* Sonderegger, H.) Orthogonalpolynome, die auf einem Intervall im Mittel und in den Randpunkten exakt approximieren. (German summary) [Orthogonal polynomials which approximate in the mean on an interval and exactly on the boundary points]
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Zhou, Song Ping The idea of approximation by staircase functions and its important applications in approximation theory. (Chinese. English and Chinese summaries)
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41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10.}

Abilov, V. A. (*with* Abilova, F. V.) Approximation of functions by algebraic polynomials in the mean. (Russian)
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Bagdasarov, S. K. Zolotarev ω-polynomials in $W^r H^\omega[0, 1]$. (English summary) **98i:41005**
Belyi, Vladimir I. On a problem of approximation to the analytic function by analytic complex planar splines in the quasidisk. (English summary) **98e:41003**
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Delvos, Franz-Jürgen Interpolation in harmonic Hilbert spaces. (English and French summaries) **98g:41005**
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Dubeau, François (*with* Savoie, Jean) On interlacing properties of the roots of orthogonal and Euler-Frobenius polynomials. (English summary) **98f:41001**
Ermakov, A. I. Best Hausdorff approximations by algebraic polynomials, and porosity. (Russian. Russian summary) **98c:41001**
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— On the sequence of errors in best polynomial approximation. (English summary) **98d:41008**
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Helzel, Christiane (*with* Petras, Knut) Numerical estimation of projection constants. (English summary) **98h:41004**
Iske, Armin Reconstruction of functions from generalized Hermite-Birkhoff data. (English summary) (*see* **98d:41001**)
Kilgore, Theodore (*with* Prestin, Jürgen) Pointwise Gopengauz estimates for interpolation. (English summary) **98c:41003**
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Kroó, András (*with* Szabados, J.; Varga, Richard S.) Weighted polynomial approximation of some entire functions on the real line. (English summary) **98a:41008**
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Lubinsky, D. S. Ideas of weighted polynomial approximation on $(-\infty,\infty)$. (English summary) (*see* **98d:41001**)
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Potapov, M. K. (*with* Sharovich, Ĭ. M.) On the approximation of functions that are analytic in a strip. (Russian. Russian summary)
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— (*with* Li, Hong Tao; Li, Hongwei) Approximation of generalized Lagrange and Hermite-Fejer interpolation in $L_{p(d\alpha)}$ spaces. (English and Chinese summaries)
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Qu, Rui Bin (*with* Sarfraz, Muhammad) Efficient method for curve interpolation with monotonicity preservation and shape control. (English summary) (*see* **98g:65008**)
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Amanzhaev, G. G. On discrete analogues of classes of functions defined by a modulus of continuity of the nth derivative. (Russian. Russian summary) **98k:41031**
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41A45 Approximation by arbitrary linear expressions

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Ismailov, V. E. *see* **Babaev, M.-B. A., 98m:41046**
Kamal, Aref The similarity between the best approximation and the best copositive approximation. (English summary) **98i:41022**
Kofanov, V. A. *see* **Babenko, V. F.; et al., 98m:41019** *and* **98m:41020**
Köhler, Peter Asymptotically best spline approximation by quasi-interpolation and asymptotically best quadrature formulae. (English summary) (*see* **98d:41001**)
Levin, A. L. (*with* Maimeskul, Victor V.; Saff, E. B.) Rational approximation with locally geometric rates. (English summary) **98m:41025**
Li, Chong[1] (*with* Watson, G. Alistair) On vector valued function approximation using a peak norm. (English summary) **98k:41047**
Luo, Zuhua Variational L^q-approximation by varisolvent family under the Young's condition. (English summary) **98i:41026**
Maimeskul, Victor V. Degree of approximation by "near best" polynomials strictly inside. **98m:41031**
— *see also* **Levin, A. L.; et al., 98m:41025**
Mariconda, Carlo *see* **Bianchini, Stefano; et al., 98e:28012**
Maroni, P. *see* **Douak, K., 98g:42038**
Meinardus, G. Some results in segmented approximation. (English summary) **98a:41020**
Nanda, Sudarsan (*with* Ellipse) Best simultaneous approximation and simultaneous farthest points in L_p norm. **98g:41022**
Păltănea, Radu New second order moduli of continuity. **98h:41031**
Park, Sung Ho[1] (*with* Rhee, Hyang Joo) Best simultaneous approximations from a convex subset.
Pichugov, S. A. *see* **Babenko, V. F.; et al., 98m:41019** *and* **98m:41020**
Radzievskiĭ, G. V. On best approximations and the rate of convergence of expansions in root vectors of an operator. (Russian. English and Ukrainian summaries) **98k:47037**
Ren, Qiang *see* **Sheng, Bao Huai, 98m:41026**
Rhee, Hyang Joo *see* **Park, Sung Ho[1]**
Saff, E. B. *see* **Levin, A. L.; et al., 98m:41025**
Sheng, Bao Huai (*with* Ren, Qiang) Approximation of certain modified rational interpolation in L_w^p spaces. (English and Chinese summaries) **98m:41026**
Singh, Sankatha Prasad Ky Fan's best approximation theorems. **98j:47137**
Stepin, A. M. *see* **Belyakov, I. V.**
Still, G. (*with* Streng, M.) The Chebyshev hyperplane optimization problem. (English summary) **98h:90085**
Streng, M. *see* **Still, G., 98h:90085**
Watson, G. Alistair *see* **Li, Chong[1], 98k:41047**
Zeller, Karl *see* **Haußmann, Werner, 98h:41037**

41A52 Uniqueness of best approximation

Bartelt, Martin W. (*with* Li, Wu[3]) Haar theory in vector-valued continuous function spaces. (English summary) **98f:41026**
Dunham, Charles B. *see* **Zhu, Chang Zhong; et al., 98a:41041**
Li, Wu[3] *see* **Bartelt, Martin W., 98f:41026**
Schmidt, Darrell *see* **Zhu, Chang Zhong; et al., 98a:41041**
Zhu, Chang Zhong (*with* Dunham, Charles B.; Schmidt, Darrell) Generalized strong unicity constants in linear uniform approximation. (English summary) **98a:41041**

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Dunham, Charles B. *see* **Zhu, Chang Zhong, 98a:41040**
Ginchev, I. (*with* Hoffmann, Armin) On the best approximation of set-valued functions. (English summary) **98h:41040**
Hoffmann, Armin *see* **Ginchev, I., 98h:41040**
Legg, D. A. (*with* Townsend, D. W.) Best monotone approximation using a peak norm. (English summary) **98d:41028**
Li, Chong[1] (*with* Yang, Wen Shan; Watson, G. Alistair) A variation of varisolvent L_1 approximation. (English summary) **98d:41046**
— *see also* **Yang, Wen Shan; et al., 98i:41042**
Scherer, Karl Uniqueness of best parametric interpolation by cubic spline curves. (English summary) **98e:41011**
Townsend, D. W. *see* **Legg, D. A., 98d:41028**
Watson, G. Alistair *see* **Li, Chong[1]; et al., 98d:41046** *and* **Yang, Wen Shan; et al., 98i:41042**
Yang, Wen Shan (*with* Li, Chong[1]; Watson, G. Alistair) Characterization and uniqueness of nonlinear uniform approximation. (English summary) **98i:41042**
— *see also* **Li, Chong[1]; et al., 98d:41046**
Zhu, Chang Zhong (*with* Dunham, Charles B.) Parameter error estimate of near alternation approximation. (English summary) **98a:41040**

41A55 Approximate quadratures

Boyanov, Borislav D. Gaussian quadrature formulae for Tchebycheff systems. (English summary) **98c:41043**
Bultheel, Adhemar (*with* Díaz-Mendoza, C.; González-Vera, P.; Orive Rodríguez, Ramón A.) Quadrature on the half line and two-point Padé approximants to Stieltjes functions. III. The unbounded case. (English summary) **98j:41033**
Cooper, S. Clement (*with* Gustafson, Philip E.) Extremal properties of strong quadrature weights and maximal mass results for truncated strong moment problems. (English summary) **98c:41044**
Díaz-Mendoza, C. *see* **Bultheel, Adhemar; et al., 98j:41033**
Diethelm, Kai New error bounds for modified quadrature formulas for Cauchy principal value integrals. (English summary) **98g:41032**
— Peano kernels of non-integer order. (English summary) **98i:41043**
Dubinin, V. V. Cubature formulas for Besov classes. (Russian. Russian summary) **98f:41027**
Ehrich, Sven High order error constants of Gauss-Kronrod quadrature formulas. (English summary) **98a:41042**
Gautschi, Walter Moments in quadrature problems. (English summary) **98j:41034**
González-Vera, P. (*with* Santos-León, J. C.; Njåstad, Olav) Some results about numerical quadrature on the unit circle. (English summary) **98f:41028**
— *see also* **Bultheel, Adhemar; et al., 98j:41033**
Guessab, A. (*with* Rahman, Qazi I.) Quadrature formulae and polynomial inequalities. (English summary) **98g:41033**
Gustafson, Philip E. *see* **Cooper, S. Clement, 98c:41044**
Huang, Xiao Ling Spline approximations of two-dimensional singular integrals. (Chinese. Chinese summary)
Landau, Elliott S. (*with* Varma, A. K.) New quadrature formulas based on the zeros of Jacobi polynomials. II. **98k:41044**
McClure, J. P. (*with* Wong, Roderick) Justification of the stationary phase approximation in time-domain asymptotics. (English summary) **98a:41043**
Milovanović, Gradimir V. (*with* Varma, A. K.) On Birkhoff (0, 3) and (0, 4) quadrature formulae. (English summary) **98d:41040**
Nikolov, Geno On certain definite quadrature formulae. (English summary) **98c:41045**
Njåstad, Olav *see* **González-Vera, P.; et al., 98f:41028**
Orive Rodríguez, Ramón A. *see* **Bultheel, Adhemar; et al., 98j:41033**
Popov, Anatoliĭ Stepanovich Cubature formulas on a sphere that are invariant with respect to the octahedron rotation group. (Russian. Russian summary) **98i:41044**
Popov, N. M. Optimal coefficients of decomposition quadratures in the class of Lipschitz functions. (Russian. Russian summary) **98e:41041**
Rahman, Qazi I. *see* **Guessab, A., 98g:41033**
Ramazanov, M. D. The asymptotic theory of I. Babuška. (Russian) **98g:41034**
Rovba, E. A. Quadrature formulas of interpolation-rational type. (Russian. English and Russian summaries) **98i:41045**
Santos-León, J. C. *see* **González-Vera, P.; et al., 98f:41028**
Spalević, Miodrag M. Product of Turán quadratures for sphere, cone, cylinder and torus. (English summary) **98d:41041**
Varma, A. K. *see* **Milovanović, Gradimir V., 98d:41040** *and* **Landau, Elliott S., 98k:41044**

Wang, He Ping Quadrature formulas for classes of functions with bounded mixed derivative or difference. (English summary) **98d:41042**
Wong, Roderick *see* **McClure, J. P., 98a:41043**

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Ashour, Samir A. A quadrature rule for Hadamard finite part integrals. (English summary) **98a:65027**
Baratella, Paola (*with* Moroni, Paola) Asymptotic error bounds of product formulas for functions with interior singularity. (English summary) **98a:41031**
Boyanov, Borislav D. (*with* Petrova, Guergana) On minimal cubature formulae for product weight functions. (English summary) **98m:65032**
Choi, U Jin *see* **Ko, Kwan Pyo, 98e:65014**
Costabile, Francesco (*with* Gualtieri, Maria Italia; Serra, Stefano) Asymptotic expansions for some classical operators and their use in approximation theory. (English summary) (*see* **98b:00027**)
Criscuolo, Giuliana A new algorithm for Cauchy principal value and Hadamard finite-part integrals. (English summary) **98b:65025**
Dragomir, Sever Silvestru (*with* Wang, Song) An inequality of Ostrowski-Grüss type and its applications to the estimation of error bounds for some special means and for some numerical quadrature rules. (English summary) **98f:26014**
Durán Guardeño, Antonio J. Ratio asymptotics and quadrature formulas. (English summary) **98m:42036**
Favati, P. Asymptotic bit cost of quadrature formulas obtained by variable transformation. (English summary)
Fischer, Jan-Wilhelm Zur Approximation linearer Funktionale bei periodischen Funktionen. [On the approximation of linear functionals in periodic functions]
Gualtieri, Maria Italia *see* **Costabile, Francesco; et al., (98b:00027)**
Iričanin, Bratislav D. Note on a type of errors which occur in the application of the Lobatto quadrature formulae. (*see* **98g:41002**)
Kapur, Sharad (*with* Rokhlin, Vladimir V.) High-order corrected trapezoidal quadrature rules for singular functions. (English summary) **98k:65011**
Ko, Kwan Pyo (*with* Choi, U Jin) The mean-square error bounds for the Gaussian quadrature of analytic functions. (English summary) **98e:65014**
Lasserre, Jean B. Integration on a convex polytope. (English summary) **98j:65016**
Li, Shikang Kronrod extension of generalized Gauss-Radau and Gauss-Lobatto formulae. (English summary) **98a:65031**
Liang, Xue-Zhang (*with* Lü, Chun-Mei) On the convergence of Hakopian interpolation and cubature. (English summary) **98c:41022**
Lü, Chun-Mei *see* **Liang, Xue-Zhang, 98c:41022**
Moroni, Paola *see* **Baratella, Paola, 98a:41031**
Notaris, Sotirios E. Interpolatory quadrature formulae with Chebyshev abscissae of the third or fourth kind. (English summary) **98c:65034**
Okecha, G. E. On the evaluation of certain strongly singular integrals using a modified trapezium rule. (English summary) **98i:65014**
Onegov, L. A. On a problem of the optimal reconstruction of integrals in the sense of the principal Cauchy value and of the finite Hadamard value. (Russian. Russian summary) **98f:65028**
Petrova, Guergana *see* **Boyanov, Borislav D., 98m:65032**
Rokhlin, Vladimir V. *see* **Kapur, Sharad, 98k:65011**
Serra, Stefano *see* **Costabile, Francesco; et al., (98b:00027)**
Stoyanova, Srebra B. A cubature formula for a hypercube of the ninth degree of accuracy. (Russian. Russian summary) **98f:65031**
Strauss, Raimond Eine Interpolationsquadratur für Finite-Part Integrale. (German summary) [An interpolation quadrature for finite-part integrals] **98m:65031**
Sun, Yong Sheng *see* **Wang, He Ping**
Tarvainen, Kyösti How to make sure that the error in the $f(x)\,dx$ term is insignificant when setting up definite integrals. (English summary)
Waldron, Shayne Symmetries of linear functionals. (English summary) **98f:46035**
Wang, He Ping (*with* Sun, Yong Sheng) Equivalent norms and quadrature formulas for a space of multivariate functions with a given mixed modulus of smoothness. (Chinese. English and Chinese summaries)
— Error estimates for Fibonacci quadrature formulas for classes of smooth functions with bounded mixed differences. (Chinese. English and Chinese summaries)
Wang, Song *see* **Dragomir, Sever Silvestru, 98f:26014**

41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

Estrada, Ricardo Asymptotic approximation by cardinal series. (English summary) (*see* **98d:41001**)
Felten, Michael On an algebraic modulus of smoothness and best algebraic approximation. (English summary) **98f:41029**
Gu, Chuan Qing *see* **Zhu, Gong-qin**
Shail, R. On the asymptotic expansion of certain functions defined by infinite series. (English summary)
Zhu, Gong-qin (*with* Gu, Chuan Qing) Approximation and interpolation of vector valued continued fractions. (English summary)

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Aldroubi, Akram Oblique and hierarchical multiwavelet bases. (English summary) **98k:42037**
Andrienko, V. A. Approximation by rectangular partial sums. **98g:42047**
Andrievskii, Vladimir Harmonic version of Jackson's theorem in the complex plane. (English summary) **98m:41017**
Estrada, Ricardo *see* **Ulate, Carlos M., 98b:46055**
Freeden, Willi (*with* Windheuser, Ulrich) Spherical wavelet transform and its discretization. (English summary) **98c:42030**
Gluzman, S. *see* **Yukalov, V. I., 98f:82004**
Kosyagin, Sergei Divergence almost everywhere of a pointwise comparison of two sequences of linear operators. (English summary) **98g:41029**
Labreuche, Christophe A convergence theorem for the fast multipole method for 2-dimensional scattering problems. (English summary) **98g:65103**
Leindler, László On the sharpness of inequalities concerning Dirichlet series and integrals. (English summary) **98k:41023**
Paszkowski, S. Fast convergent quasipower series for some elementary and special functions. (English summary) **98g:33004**
Shim, Hong-Tae Convergence of wavelet expansions at discontinuity. **98b:41021**
— On Gibbs constant for the Shannon wavelet expansion. (English summary) **98f:42032**
Smelov, V. V. Sturm-Liouville operators and their non-classical applications. (English summary) **98i:34128**
Trigub, R. M. Multipliers in the Hardy spaces $H_p(D^m)$ for $p \in (0, 1]$ and approximation properties of methods for the summation of power series. (Russian. Russian summary) **98g:42034**
Ulate, Carlos M. (*with* Estrada, Ricardo) Expansion of distributional kernels of the type $f(\lambda x, x)$, as $\lambda \to \infty$. **98b:46055**
Windheuser, Ulrich *see* **Freeden, Willi, 98c:42030**
Yukalov, V. I. (*with* Gluzman, S.) Self-similar bootstrap of divergent series. (English summary) **98f:82004**

41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [see also 30E15]

Anastassiou, George A. *see* **Zhou, Mi, (98d:41001)**
Dunster, T. M. Asymptotics of the generalized exponential integral, and error bounds in the uniform asymptotic smoothing of its Stokes discontinuities. (English summary) **98b:41031**
van der Hoeven, Joris On the computation of limsups. (English summary) **98h:41034**
Howls, Chris J. An introduction to hyperasymptotics using Borel-Laplace transforms. (English summary) **98j:41035**
Jones, D. S. ★ Introduction to asymptotics. (English summary) **98i:41046**
Wong, Roderick (*with* Zhang, Ji Min) Asymptotic expansions of the generalized Bessel polynomials. (English summary) **98h:41035**
Zhang, Ji Min *see* **Wong, Roderick, 98h:41035**
Zhou, Mi (*with* Anastassiou, George A.) Asymptotic expansions related to (C_0) m-parameter operator semigroups. (English summary) (*see* **98d:41001**)

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Abad, Julio (*with* Sesma, Javier) A new expansion of the confluent hypergeometric function in terms of modified Bessel functions. (English summary) **98f:33010**
Abel, Ulrich The complete asymptotic expansion for the Meyer-König and Zeller operators. (English summary) **98a:41030**
Aleshin, M. V. (*with* Yudin, I. P.) ★ Применение метода наискорейшего спуска к задачам магнитостатики. (Russian. English and Russian summaries) [Application of the steepest descent method to problems in magnetostatics] **98g:78009**
Andreev, Nikolai N. An extremal problem for periodic functions with small support. (Russian. Russian summary) **98g:42011**
Banerji, P. K. (*with* Sinha, Deepali) Asymptotic expansion of an integral transform of generalized function. (English summary) **98f:44001**
Belward, John A. *see* **Zhang, Jun², 98h:65011**
Bender, Edward A. (*with* Richmond, L. Bruce) Admissible functions and asymptotics for labelled structures by number of components. (English summary) **98a:05012**
Berg, Lothar On an entry of Ramanujan concerning divergent series. (English summary) **98d:40002**
— Asymptotic two-point approximations by rational functions. (English summary) **98k:41025**
Berry, M. V. Two-state quantum asymptotics. **98f:81085**
Burkhart, Richard H. Asymptotic expansion of the free-space Green's function for the discrete 3-D Poisson equation. (English summary) **98d:76123**
Ciupa, Alexandra On the remainder in an approximation formula by Favard-Szasz type operator for functions of two variables. **98d:41032**
Deift, Percy A. (*with* It·s, A. R.; Zhou, Xin) A Riemann-Hilbert approach to asymptotic problems arising in the theory of random matrix models, and also in the theory of integrable statistical mechanics. **98k:47097**
Drmota, Michael (*with* Soria, Michèle) Images and preimages in random mappings. (English summary) **98c:05011**
Dunster, T. M. Error analysis in a uniform asymptotic expansion for the generalised exponential integral. (English summary) **98k:33003**
Goh, W. M. Y. Plancherel-Rotach asymptotics for the Charlier polynomials. (English summary) **98m:33019**
Grabner, Peter J. (*with* Thuswaldner, Jörg M.) Analytic continuation of a class of Dirichlet series. (English summary) **98a:11119**
It·s, A. R. Connection formulae for the Painlevé transcendents. (English summary) **98c:34008**
— *see also* **Deift, Percy A.; et al., 98k:47097**
Khaseninskii, Rafail Z. (*with* Yin, Gang George) On transition densities of singularly perturbed diffusions with fast and slow components. (English summary) **98d:60158**
Kolassa, John E. ★ Series approximation methods in statistics. **98m:62038**
Kudryavtsev, S. N. Approximation of a partial differentiation operator by bounded operators in the class of functions of finite smoothness. (Russian. Russian summary) **98e:41034**
Kvitsinskiĭ, A. A. Spectral functions of zeros of Bessel q-functions. (Russian. English and Russian summaries) **98e:33010**
Pilipović, Stevan (*with* Stanković, B.) Properties of ultradistributions having the S-asymptotics. (English summary) **98a:46051**
Ramazanov, M. D. The asymptotic theory of I. Babuška. (Russian) **98g:41034**
Richmond, L. Bruce *see* **Bender, Edward A., 98a:05012**
Routledge, Richard D. (*with* Tsao, Min) On the relationship between two asymptotic expansions for the distribution of sample mean and its applications. (English summary) **98i:62010**
Sesma, Javier *see* **Abad, Julio, 98f:33010**

Shail, R. On the asymptotic expansion of certain functions defined by infinite series. (English summary)
Sinha, Deepali *see* **Banerji, P. K., 98f:44001**
Soria, Michèle *see* **Drmota, Michael, 98c:05011**
Stanković, B. *see* **Pilipović, Stevan, 98a:46051**
Temme, Nico M. Uniform asymptotics for the incomplete gamma functions starting from negative values of the parameters. (English summary) **98k:33004**
— Numerical algorithms for uniform Airy-type asymptotic expansions. (English summary) **98f:65027**
Thuswaldner, Jörg M. *see* **Grabner, Peter J., 98a:11119**
Tsao, Min *see* **Routledge, Richard D., 98i:62010**
Vershik, A. M. Asymptotic combinatorics and algebraic analysis. **98e:60018**
Yin, Gang George *see* **Khasminskii, Rafail Z., 98d:60158**
Yudin, I. P. *see* **Aleshin, M. V., 98g:78009**
Zhang, Jun[2] (*with* Belward, John A.) Chebyshev series approximations for the Bessel function $Y_n(z)$ of complex argument. (English summary) **98h:65011**
Zhang, Pei Xuan Saturation problem of Fejér operator for non-trigonometric series. (English and Chinese summaries)
Zhou, Xin *see* **Deift, Percy A.; et al., 98k:47097**

41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)

Akopyan, A. A. *see* **Gevorgyan, O. V.; et al., 98e:41042**
Babaev, M.-B. A. (*with* Ismailov, V. E.) Two-sided estimates for the best approximation in domains different from the parallelepiped. (English summary) **98m:41046**
Chui, Charles K. (*with* Hong, Dong) Swapping edges of arbitrary triangulations to achieve the optimal order of approximation. (English summary) **98h:41036**
Davydov, O. V. *see* **Nürnberger, Günther; et al., 98i:41048**
Dolzhenko, E. P. Remarks on the modulus of continuity of a conformal mapping of a disk onto a Jordan domain. (Russian. Russian summary) **98a:41044**
Dyn, Nira (*with* Levin, David) Analysis of Hermite-type subdivision schemes. (English summary) (*see* **98d:41002**)
Franke, Richard (*with* Šalkauskas, Kęstutis) Localization of multivariate interpolation and smoothing methods. (English summary) **98a:41045**
Fryntov, A. E. A uniqueness theorem connected with weighted polynomial approximation on a sequence. (Russian. English, Russian and Ukrainian summaries) **98i:41047**
Gao, Jun Bin A class of abstract Newton interpolation methods. (Chinese. English and Chinese summaries)
Garkavi, A. L. On the approximation of functions in two variables by sums of the form $\varphi(x)+\psi(y)$ in the spaces L_p $(1 \le p \le \infty)$. (Russian. Russian summary) **98g:41035**
Gevorgyan, O. V. (*with* Akopyan, A. A.; Sahakian, Artur A.) Bivariate Hermite interpolation and numerical curves. (English summary) **98e:41042**
Gorbaŭ', A. N. Approximation of continuous functions of several variables by an arbitrary nonlinear continuous function of one variable, linear functions, and their superpositions. (English summary)
Gu, Chuan Qing Multivariate generalized inverse vector-valued rational interpolants. (English summary) **98j:41036**
Haußmann, Werner (*with* Kounchev, Ognyan Iv.) Peano theorem for linear functionals vanishing on polyharmonic functions. (English summary) **98f:41030**
— (*with* Zeller, Karl) Canonical point sets in multivariate constructive function theory. **98h:41037**
Hong, Dong *see* **Chui, Charles K., 98h:41036**
Ismailov, V. E. *see* **Babaev, M.-B. A., 98m:41046**
Kilmer, Shelby (*with* Sun, Xingping; Yu, Xiang Ming) Analytic monotone extension in two and three dimensions. (English summary) **98b:41032**
Kounchev, Ognyan Iv. Minimizing the Laplacian of a function squared with prescribed values on interior boundaries—theory of polysplines. (English summary) **98h:41038**
— *see also* **Haußmann, Werner, 98f:41030**
Kroó, András (*with* Schmidt, Darrell) Some extremal problems for multivariate polynomials on convex bodies. (English summary) **98k:41045**
Krotov, D. S. ★ Оценки сходимости метода композиции сплайнов на основе разбиения единицы. (Russian. Russian summary) [Estimates for the convergence of the spline composition method based on partition of unity] **98a:41046**
Levin, David *see* **Dyn, Nira, (98d:41002)**
Liu, Ying Fan Some results on multivariate algebraic polynomial approximation and a.e. approximation. (Chinese. English summary) **98c:41046**
— Some results on approximation by multivariate polynomials. (Chinese. English and Chinese summaries) **98e:41043**
Lyche, Tom (*with* Scherer, Karl) On the sup-norm condition number of the multivariate triangular Bernstein basis. (English summary) **98m:41047**
Menegatto, V. A. (*with* Peron, A. P.) Generalized interpolation on spheres using positive definite and related functions. (English summary) **98c:41047**
Nürnberger, Günther (*with* Davydov, O. V.; Walz, Guido; Zeilfelder, F.) Interpolation by bivariate splines on crosscut partitions. (English summary) **98i:41048**
Peron, A. P. *see* **Menegatto, V. A., 98c:41047**
Reif, Ulrich Some new results on subdivision algorithms for meshes of arbitrary topology. (English summary) (*see* **98d:41002**)
Rivlin, T. J. Some remarks on multivariate Chebyshev polynomials. (English summary) **98c:41048**
Sahakian, Artur A. *see* **Gevorgyan, O. V.; et al., 98e:41042**
Šalkauskas, Kęstutis *see* **Franke, Richard, 98a:41045**
Schaback, Robert Multivariate interpolation and approximation by translates of a basis function. (English summary) **98g:41036**
Scherer, Karl *see* **Lyche, Tom, 98m:41047**
Schmidt, Darrell *see* **Kroó, András, 98k:41045**
Sun, Xingping *see* **Kilmer, Shelby; et al., 98b:41032**
Torrens, Juan José Sur l'erreur d'approximation par éléments finis en utilisant la méthode des plaquettes splines. (English and French summaries) [On the finite element approximation error using the "plaquette spline" method] **98d:41043**
Vaskevich, V. L. Analogues of Hermitian cubature formulas for the Dirichlet integral of harmonic functions. (Russian. Russian summary) **98a:41047**
Vlaic, Gabriela Bivariate approximation by D. D. Stancu type polynomials on a triangle. (*see* **98g:41002**)
Walz, Guido *see* **Nürnberger, Günther; et al., 98i:41048**
Wenz, Hans-Jörg On local approximation methods for multivariate polynomial spline surfaces. (English summary) **98c:41049**
Yu, Xiang Ming *see* **Kilmer, Shelby; et al., 98b:41032**
Zeilfelder, F. *see* **Nürnberger, Günther; et al., 98i:41048**
Zeller, Karl *see* **Haußmann, Werner, 98h:41037**
Zhao, Hong Xing Multivariate H-B interpolation for two-point regular problems. (Chinese. English and Chinese summaries)
Zhu, Ping[2] Interpolation on a parabolic type of node configuration. (Chinese. English and Chinese summaries)

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Abel, Ulrich (*with* Arends, Georg) The powers of the bivariate Bernstein operators. **98e:41028**
Abilov, V. A. Approximation of differentiable functions of two variables by Fourier-Jacobi sums. (Russian)
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Trif, Tiberiu *see* **Breckner, Wolfgang W.; et al.**, **98j:47047**

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41A99 Miscellaneous topics

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42–XX Fourier analysis

42–01 Instructional exposition (textbooks, tutorial papers, etc.)

Pinkus, Allan (*with* Zafrany, Samy) ★ Fourier series and integral transforms. **98g:42001**
Zafrany, Samy *see* **Pinkus, Allan, 98g:42001**

Items with secondary classifications in 42–01

Chen, Ching Shyang *see* **Golberg, M. A., 98c:45002**
Golberg, M. A. (*with* Chen, Ching Shyang) ★ Discrete projection methods for integral equations. (English summary) **98c:45002**
Lancaster, Peter (*with* Šalkauskas, Kęstutis) ★ Transform methods in applied mathematics. **98b:44001**
Lieb, Elliott H. (*with* Loss, Michael) ★ Analysis. (English summary) **98b:00004**
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Saichev, A. I. (*with* Woyczyński, Wojbor A.) ★ Distributions in the physical and engineering sciences. Vol. 1. (English summary) **98b:00008**
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Woyczyński, Wojbor A. *see* **Saichev, A. I., 98b:00008**

42–02 Research exposition (monographs, survey articles)

Coifman, Ronald *see* **Meyer, Yves, 98e:42001**
Jöricke, B. *see* **Khavin, Viktor Petrovich, (98b:42001)**
Khavin, Viktor Petrovich (*with* Jöricke, B.) The uncertainty principle in harmonic analysis [MR 93e:42001]. (*see* **98b:42001**)
Meyer, Yves (*with* Coifman, Ronald) ★ Wavelets. (English summary) **98e:42001**
(Salinger, David) *see* **Meyer, Yves, 98e:42001**

Items with secondary classifications in 42–02

Carbery, Anthony Harmonic analysis of the Calderón-Zygmund school, 1970–1993. **98k:42014**
Paley, Raymond E. A. C. (*with* Wiener, Norbert) ★ Fourier transforms in the complex domain. **98a:01023**
Wiener, Norbert *see* **Paley, Raymond E. A. C., 98a:01023**

42–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 42–03

Arestov, V. V. (*with* Berdyshev, V. I.; Subbotin, Yu. N.; Chernykh, N. I.) S. B. Stechkin and approximation theory. (Russian) **98m:41001**
Berdyshev, V. I. *see* **Arestov, V. V.; et al., 98m:41001**
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Gårding, Lars ★ Some points of analysis and their history. (English summary) **98m:01023**
Kahane, Jean-Pierre A century of interplay between Taylor series, Fourier series and Brownian motion. (English summary) **98a:01015**
Lévy-Leblond, Jean-Marc If Fourier had known Argand ... A geometrical point of view on Fourier transforms. **98i:01019**
(Stechkin, S. B.) *see* **Arestov, V. V.; et al., 98m:41001**
Subbotin, Yu. N. *see* **Arestov, V. V.; et al., 98m:41001**

42–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 42–04

Plukas, Kostas (*with* Plukienė, Danutė) Computing coefficients of Fourier series. (English and Lithuanian summaries)
Plukienė, Danutė *see* **Plukas, Kostas**

42–06 Proceedings, conferences, collections, etc.

(Aldroubi, Akram) *see* **Wavelets, multiwavelets, and their applications, 98k:42001**
(Cooke, Roger L.) *see* **Commutative harmonic analysis, 98b:42001**
(Duffin, Richard J.) *see* **Dedicated to the memory of Richard J. Duffin**
(Feichtinger, Hans G.) *see* **Gabor analysis and algorithms, 98h:42001**
(Khavin, Viktor Petrovich) *see* **Commutative harmonic analysis, 98b:42001**
(Lin, En-Bing) *see* **Wavelets, multiwavelets, and their applications, 98k:42001**
(Nikol'skiĭ, Nikolai K.) *see* **Commutative harmonic analysis, 98b:42001**
(Strohmer, Thomas) *see* **Gabor analysis and algorithms, 98h:42001**

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  Wavelets, Multiwavelets, and their Applications ★ Wavelets, multiwavelets, and their applications. **98k:42001**
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(Chui, Charles K.) *see* **Approximation theory, 98d:41002**
(D'Attellis, Carlos E.) *see* **Wavelet theory and harmonic analysis in applied sciences, 98b:00035**
(Fernández-Berdaguer, E. M.) *see* **Wavelet theory and harmonic analysis in applied sciences, 98b:00035**
(de Guzmán, Miguel) *see* **Proceedings: Conference dedicated to Professor Miguel de Guzmán, 98i:00025**
(Harper, Lawrence H.) *see* **Harmonic analysis and nonlinear differential equations, 98c:00018**
(Lapidus, Michel L.) *see* **Harmonic analysis and nonlinear differential equations, 98c:00018**
(Nürnberger, Günther) *see* **Multivariate approximation and splines, 98g:41003**
(Rákosník, Jiří) *see* **Function spaces, differential operators and nonlinear analysis, 98e:00019**
(Rumbos, Adolfo J.) *see* **Harmonic analysis and nonlinear differential equations, 98c:00018**
(Schmidt, Jochen W.) *see* **Multivariate approximation and splines, 98g:41003**
(Schumaker, Larry L.) *see* **Approximation theory, 98d:41002**
(Shapiro, Victor L.) *see* **Harmonic analysis and nonlinear differential equations, 98c:00018**
(Walz, Guido) *see* **Multivariate approximation and splines, 98g:41003**

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Approximation theory ★ Approximation theory VIII. Vol. 2. **98d:41002**
Birthday:
  de Guzmán, Miguel ★ Proceedings of the conference dedicated to Professor Miguel de Guzmán. **98i:00025**
Buenos Aires ★ Wavelet theory and harmonic analysis in applied sciences. **98b:00035**
College Station, TX ★ Approximation theory VIII. Vol. 2. **98d:41002**
Conference:
  Approximation Theory ★ Approximation theory VIII. Vol. 2. **98d:41002**
  Function Spaces, Differential Operators and Nonlinear Analysis ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
  Harmonic Analysis and Partial Differential Equations ★ Proceedings of the conference dedicated to Professor Miguel de Guzmán. **98i:00025**
  Mathematics in Industry and Medicine ★ Wavelet theory and harmonic analysis in applied sciences. **98b:00035**
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  Shapiro, Victor L. ★ Harmonic analysis and nonlinear differential equations. **98c:00018**
Contemporary Mathematics ★ Harmonic analysis and nonlinear differential equations. **98c:00018**
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42Axx Fourier analysis in one variable

42A05 Trigonometric polynomials, inequalities, extremal problems

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Andreev, Nikolaĭ N. (*with* Konyagin, Sergei; Popov, A. Yu.) Extremal problems for functions with small support. (Russian. Russian summary) **98g:42002**
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— (*with* Konyagin, Sergei) An estimate for the free term of a nonnegative trigonometric polynomial with integer coefficients. (Russian) **98h:42002**
Boyanov, Borislav D. Turán's inequalities for trigonometric polynomials. (English summary) **98e:42002**
Brown, Gavin Positivity of some classical sums. (English summary) **98h:42003**
— (*with* Wang, Kun Yang[1]) An extension of the Fejér-Jackson inequality. (English summary) **98e:42003**
— (*with* Koumandos, Stamatis) On a monotonic trigonometric sum. (English summary) **98j:42001**
Ferrando, J. C. On trigonometric polynomials. (English summary)
Holt, Jeffrey J. A class of extremal functions and trigonometric polynomials. (English summary) **98j:42002**
Konyagin, Sergei Estimates of maxima of sine sums. (English summary) **98g:42003**
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Babenko, A. G. Exact Jackson-Stechkin inequality in the space L^2 of functions on a multidimensional sphere. (Russian. Russian summary) **98a:41022**
Erdős, Paul[1] (*with* Totik, Vilmos) On the size of products of distances from prescribed points. **98c:52021**
Karapetyan, A. G. On the minimum modulus of trigonometric polynomials with random coefficients. (Russian)
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Kilgore, Theodore Polynomial and function inequalities for derivatives. (English summary) **98f:41007**
Kolountzakis, Mihail N. Some applications of probability to additive number theory and harmonic analysis. (English summary) **98i:11061**
Mignotte, Maurice *see* **Amoroso, Francesco, 98h:11101**
Pavlović, Miroslav On the convolution of harmonic functions and harmonic polynomials. (English summary) **98h:31001**
Saffari, Bahman Sieve of Erathosthenes and coefficients of trigonometric polynomials. (English and French summaries) **98a:11126**
Skopina, M. A. On the norms of polynomials in systems of periodic wavelets in L_p spaces. (Russian) **98g:42058**
Totik, Vilmos *see* **Erdős, Paul**[1], **98c:52021**
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42A10 Trigonometric approximation

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— Approximation of functions by typical means of their Fourier series. (English summary)
— Approximation properties of linear means for Fourier series of integrable functions. (*see* **98g:41002**)
— Approximation of functions by linear means of their Fourier series. (English summary) (*see* **98i:00030**)
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Pustovoĭtov, N. N. An estimate for the best approximations of periodic functions by trigonometric polynomials in terms of averaged differences, and the multidimensional Jackson theorem. (Russian. Russian summary) **98k:42002**
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Wu, Garidi The Jackson theorem on approximation by trigonometric polynomials in the space B_ω. (Chinese. English and Chinese summaries)
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Chen, Weiyu (*with* Ditzian, Z.) Best approximation and K-functionals. **98h:41013**
Dinh Dung Best multivariate approximations by trigonometric polynomials with frequencies from hyperbolic crosses. (English summary) **98k:41043**
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42A15 Trigonometric interpolation

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42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30.}

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42A24 Summability of Fourier and trigonometric series

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42A28 Absolute convergence, absolute summability

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42Bxx Fourier analysis in several variables {For automorphic theory, see mainly 11F30.}

42B05 Fourier series and coefficients

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Fan, Dashan (*with* Wu, Zhijian) Transference of multipliers on certain Hardy-type spaces. **98b:42038**
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Minicozzi, William P., II (*with* Sogge, Christopher D.) Negative results for Nikodym maximal functions and related oscillatory integrals in curved space. **98k:42025**
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42B20 Singular integrals (Calderón-Zygmund, etc.)

Beckner, William Logarithmic Sobolev inequalities and the existence of singular integrals. (English summary) **98a:42010**
Carbery, Anthony Harmonic analysis of the Calderón-Zygmund school, 1970–1993. **98k:42014**
Chen, Wengu (*with* Lu, Shanzhen) Weighted inequalities for multilinear oscillatory singular integrals. (English summary) **98k:42015**
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— (*with* Pipher, Jill C.) Multiparameter operators and sharp weighted inequalities. (English summary) **98b:42027**
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Hu, Guoen Weighted norm inequalities for commutators of homogeneous singular integrals. (English summary) **98b:42028**
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— A note on singular integral operators. (English summary) **98e:42017**

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— L^p-boundedness for singular integrals associated with two kind of manifold. (English and Chinese summaries) **98i:42006**
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Rubin, Boris ★ Fractional integrals and potentials. (English summary) **98h:42018**
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Yang, Dachun The L^p-boundedness of some singular integral operators along surfaces. (English and Chinese summaries) **98k:42022**
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Combs, Randy Products of power weights and A_p weights. (English summary) **98b:42021**
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Krugłyak, N. Ya. Smooth analogues of the Calderón-Zygmund decomposition, quantitative covering theorems and the K-functional for the couple (L_q, W^k_p). (Russian. Russian summary) **98e:46032**
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Li, Zhong Kai Conjugate Jacobi series and conjugate functions. (English summary) **98g:42044**
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Wang, Kunchuan The generalization of paraproducts and the full $T1$ theorem for Sobolev and Triebel-Lizorkin spaces. (English summary) **98i:46032**
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42B25 Maximal functions, Littlewood-Paley theory

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Capone, Claudia (*with* Fiorenza, Alberto) Maximal inequalities in weighted Orlicz spaces. (English and Italian summaries) **98i:42009**
Carozza, Menita (*with* Passarelli di Napoli, Antonia) Composition of maximal operators. (English summary) **98f:42013**
Carro, María J. (*with* Soria, Javier) The Hardy-Littlewood maximal function and weighted Lorentz spaces. (English summary) **98g:42028**
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Chandarana, Sharad L^p-bounds for hypersingular integral operators along curves. (English summary) **98b:42029**
Dror, Ron (*with* Ganguli, Suman; Strichartz, Robert S.) A search for best constants in the Hardy-Littlewood maximal theorem. (English summary) **98b:42030**
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— (*with* Kokilashvili, V. M.) Criteria of strong type two-weighted inequalities for fractional maximal functions. (English summary) **98m:42020**
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— Weak type $L^1(\mathbf{R}^n)$-estimate for certain maximal operators. (English summary) **98k:42024**
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Korey, Michael Brian Carleson conditions for asymptotic weights. (English summary) **98h:42019**
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Lai, Qinsheng A note on weighted maximal inequalities. (English summary) **98b:42033**
Lee, Jong-In (*with* Yoo, Yoon Jae) Norm estimate for a certain maximal operator. (English summary) **98m:42022**
Lerner, A. K. On Hardy-Littlewood and Fefferman-Stein strong maximal functions. (Russian) **98f:42015**
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Sjögren, Peter (*with* Soria, Fernando) Weak type (1, 1) estimates for some integral operators related to rough maximal functions. (English summary) **98m:42025**
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42Cxx Nontrigonometric Fourier analysis

42C05 Orthogonal functions and polynomials, general theory [see also 33C45, 33C50, 33D45]

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— (*with* Wang, Jun Ping[1]) Stabilizing the hierarchical basis by approximate wavelets. I. Theory. (English summary) **98c:65197**
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Walnut, David F. Nonperiodic sampling of bandlimited functions on unions of rectangular lattices. (English summary) **98b:42015**
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Wang, Jun Ping[1] *see* **Vassilevski, Panayot S.**, **98c:65197** *and* **98i:65040**
Wang, Wen Yuan *see* **Ni, Lin; et al.**
Wang, Yazhen Function estimation via wavelet shrinkage for long-memory data. (English summary) **98d:62072**
Weiss, Guido *see* **Bonami, Aline; et al.**, **98k:42033**
Williams, John R. (*with* Amaratunga, Kevin) A discrete wavelet transform without edge effects using wavelet extrapolation. (English summary) **98d:94002**
Xie, Yongzhe *see* **Zhu, Yisheng; et al.**, **98b:94004**
Xu, Chang Fa (*with* Lu, Qichu) The numerical character of data reconstruction in discrete multi-resolution analysis. (English and Chinese summaries)
Xu, Shuzhan *see* **Riemenschneider, S.**, **98a:65196**
Xu, Yuesheng *see* **Micchelli, Charles A.**, **98g:94007**
Youvaraj, G. P. (*with* Saeki, Sadahiro) Kolmogorov's rearrangement problem—with respect to some summability methods. (English summary) **98k:42049**
Zalik, R. A. *see* **Favier, S. J.**, **98e:46026**
Zeevi, Yehoshua Y. (*with* Zibulski, Meir; Porat, Moshe) Multi-window Gabor schemes in signal and image representations. (English summary) (*see* **98h:42001**)
— *see also* **Signal and image representation in combined spaces**, **98m:94002**
Zeira, Ariela (*with* Friedlander, Benjamin) Gabor representation and signal detection. (English summary) (*see* **98h:42001**)
Zhang, Ping Wen (*with* Liu, Fa Qi; Zhang, Yu[4]) The numerical computation of wavelets. (Chinese. English summary)
Zhang, Yu[4] *see* **Zhang, Ping Wen; et al.**
Zheludev, V. A. On the digital processing of signals by means of spline wavelets and wavelet packets. (Russian)
Zhou, Yi *see* **Zhu, Yisheng; et al.**, **98b:94004**
Zhu, Yisheng (*with* Xie, Yongzhe; Zhou, Yi) Analysis and application of quadratic spline wavelet filter. (English summary) **98b:94004**
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Multiscale wavelet methods for partial differential equations ★ Multiscale wavelet methods for partial differential equations. **98d:65006**
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42C20 Rearrangements and other transformations of Fourier and other orthogonal series

Gariĭ'yanov, F. N. Transformations of biorthogonal systems, and some of their applications. I. (Russian) **98h:42034a**
— Transformations of biorthogonal systems, and some of their applications. II. (Russian) **98h:42034b**
Körner, T. W. Olevskiĭ and the divergence of rearranged series. (English summary) **98h:42055**
Saeki, Sadahiro *see* **Youvaraj, G. P.**, **98k:42049**
Semënov, E. M. RUC-basis properties of the Haar system. (Russian) **98h:42035**
Youvaraj, G. P. (*with* Saeki, Sadahiro) Kolmogorov's rearrangement problem—with respect to some summability methods. (English summary) **98k:42049**

Items with secondary classifications in 42C20

Battle, Guy Heisenberg inequalities for wavelet states. (English summary) **98e:42027**
Strang, Gilbert Creating and comparing wavelets. (English summary) **98c:42036**

42C25 Uniqueness and localization for orthogonal series

Navasardyan, K. A. On null series in the double Walsh system. (Russian. English and Russian summaries) **98f:42034**

Items with secondary classifications in 42C25

Battle, Guy Heisenberg inequalities for wavelet states. (English summary) **98e:42027**
Reyes, Noli N. An asymptotic formula for some wavelet series. (English summary) **98i:42012**

42C30 Completeness of sets of functions

Katsnelson, Victor Emanuelovich Sampling and interpolation for functions with multi-band spectrum: the mean-periodic continuation method. (English summary) **98c:42038**
Zeevi, Yehoshua Y. *see* **Zibulski, Meir**, **98f:42035**
Zibulski, Meir (*with* Zeevi, Yehoshua Y.) Analysis of multiwindow Gabor-type schemes by frame methods. (English summary) **98f:42035**

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Gröchenig, Karlheinz (*with* Ron, Amos) Tight compactly supported wavelet frames of arbitrarily high smoothness. (English summary) **98f:42030**
Ramazanov, A.-R. K. Polynomials that are orthogonal with a sign-sensitive weight. (Russian. Russian summary) **98g:42041**
Ron, Amos (*with* Shen, Zuowei) Compactly supported tight affine spline frames in $L_2(\mathbf{R}^d)$. (English summary) **98c:42035**
— *see also* **Gröchenig, Karlheinz**, **98f:42030**
Semënov, E. M. RUC-basis properties of the Haar system. (Russian) **98h:42035**
Shen, Zuowei *see* **Ron, Amos**, **98c:42035**

42C99 None of the above, but in this section

Altalsky, M. V. p-adic wavelet decomposition vs Fourier analysis on spheres. (English summary) **98b:42056**
Christensen, Ole (*with* Heil, Christopher) Perturbations of Banach frames and atomic decompositions. (English summary) **98m:42061**
Dahlke, Stephan (*with* Maass, Peter) Continuous wavelet transforms with applications to analyzing functions on spheres. (English summary) **98b:42057**
Heil, Christopher *see* **Christensen, Ole**, **98m:42061**
Maass, Peter *see* **Dahlke, Stephan**, **98b:42057**
Verbitskiĭ, I. Ė. Imbedding and multiplier theorems for discrete Littlewood-Paley spaces. (English summary) **98j:42026**

Items with secondary classifications in 42C99

Byrnes, Christopher I. (*with* Landau, Henry J.; Lindquist, Anders) On the well-posedness of the rational covariance extension problem. (English summary) **98c:93026**
Cazassa, Peter G. (*with* Christensen, Ole) Perturbation of operators and applications to frame theory. (English summary) **98j:47028**
Christensen, Ole *see* **Cazassa, Peter G.**, **98j:47028**
Donoho, David L. Abstract statistical estimation and modern harmonic analysis. **98b:62058**
Isac, George (*with* Vuza, D. T.) Differential representation of measures and functions. (English summary) **98j:26009**
Johnston, Carolyn P. On the pseudodilation representations of Flornes, Grossmann, Holschneider, and Torresani. **98h:11162**
Joó, Istvan (*with* Nguyễn Xuân Kỳ) On approximation by Riesz means. **98k:41032**
Landau, Henry J. *see* **Byrnes, Christopher I.; et al.**, **98c:93026**
Lawton, Wayne M. (*with* Lee, Seng Luan; Shen, Zuowei) Convergence of multidimensional cascade algorithm. (English summary) **98k:41027**
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Lindquist, Anders *see* **Byrnes, Christopher I.; et al.**, **98c:93026**
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Shen, Zuowei *see* **Lawton, Wayne M.; et al.**, **98k:41027**
Stempak, Krzysztof (*with* Trebels, Walter) Hankel multipliers and transplantation operators. (English summary) **98k:46047**
Trebels, Walter *see* **Stempak, Krzysztof**, **98k:46047**
Vuza, D. T. *see* **Isac, George**, **98j:26009**

43–XX Abstract harmonic analysis {For other analysis on topological and Lie groups, see 22Exx.}

43–01 Instructional exposition (textbooks, tutorial papers, etc.)

Folland, Gerald B. ★ A course in abstract harmonic analysis. **98c:43001**

43–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 43–02

Gordon, E. I. ★ Nonstandard methods in commutative harmonic analysis. (English summary) **98f:03056**
(McFaden, H. H.) *see* **Gordon, E. I., 98f:03056**

43–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 43–03

Pier, Jean-Paul ★ Histoire de l'intégration. (French. French summary) [History of integration] **98k:01003**

43–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 43–06

(Drury, S. W.) *see* **Harmonic analysis and number theory, 98d:00028**
(Herz, Carl S.) *see* **Harmonic analysis and number theory, 98d:00028**
(Korányi, Adam) *see* **Harmonic functions on trees and buildings, 98b:31001**
(Murty, M. Ram) *see* **Harmonic analysis and number theory, 98d:00028**

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Conference:
Harmonic Analysis and Number Theory ★ Harmonic analysis and number theory. **98d:00028**
Contemporary Mathematics ★ Harmonic functions on trees and buildings. **98b:31001**
Festschrift:
Herz, Carl S. ★ Harmonic analysis and number theory. **98d:00028**
Harmonic analysis and number theory ★ Harmonic analysis and number theory. **98d:00028**
Harmonic functions on trees and buildings ★ Harmonic functions on trees and buildings. **98b:31001**
Montreal, PQ ★ Harmonic analysis and number theory. **98d:00028**
New York ★ Harmonic functions on trees and buildings. **98b:31001**
Workshop:
Harmonic Functions on Graphs ★ Harmonic functions on trees and buildings. **98b:31001**

43A05 Measures on groups and semigroups, etc.

Alexopoulos, Georges Puissances de convolution sur les groupes à croissance polynomiale du volume. (English and French summaries) [Convolution powers on groups of polynomial volume growth] **98a:43001**
Bartoszek, Wojciech More on the equation $\nu * \rho * \mu = \rho$. **98m:43001**
Cherix, Pierre-Alain (*with* Valette, Alain) On spectra of simple random walks on one-relator groups. (English summary) **98b:43001**
Chu, Cho-Ho (*with* Hilberdink, Titus) The convolution equation of Choquet and Deny on nilpotent groups. (English summary) **98c:43002**
Grinnell, Raymond J. Convolution mapping properties of Lorentz-improving measures. (English summary) **98d:43001**
— A characterization of Lorentz-improving measures. (English summary) **98b:43002**
— Lorentz-improving measures on hypergroups. (English summary) **98b:43003**
— An eigenspace characterization of Lorentz-improving measures on compact groups. (English summary) **98i:43001**
Hilberdink, Titus *see* **Chu, Cho-Ho, 98c:43002**
(Jolissaint, Paul) *see* **Cherix, Pierre-Alain, 98b:43001**
Shur, M. G. On a theorem on the asymptotic equidistribution of convolution powers of symmetric measures on a unimodular group. (Russian. Russian summary) **98e:43001**
Valette, Alain *see* **Cherix, Pierre-Alain, 98b:43001**
Voit, Michael Limit theorems for compact two-point homogeneous spaces of large dimensions. (English summary) **98g:43001**
Yamaguchi, Hiroshi² An F. and M. Riesz theorem on compact groups. **98b:43004**
— The space $N(\sigma)$ and the F. and M. Riesz theorem. (English summary) **98b:43005**

Items with secondary classifications in 43A05

Alexopoulos, Georges Convolution powers on discrete groups of polynomial volume growth. (English summary) **98m:22009**
Argün, Z. (*with* Tonyalı, C.) Weak*-invariantly complemented subspaces of $L^\infty(1/\omega)$ and ideals of $L^1(\omega)$ with a bounded approximate identity. (English and Turkish summaries) **98j:43002**
Banaszczyk, W. The Minlos lemma for positive-definite functions on additive subgroups of $\mathbf{R}^n$. (English summary) **98m:43008**
Bartoszek, Wojciech On concentrated probabilities on non-locally compact groups. (English summary) **98b:60013**
Budzban, Greg (*with* Ruzsa, Imre Z.) Some results concerning convergence of convolution products of probability measures on discrete semigroups. (English summary) **98d:60012**
Coşkun, Erdal Diffuse and discrete semigroups of probability measures on abelian Hilbert-Lie groups. (English and Italian summaries) **98c:60008**
— Differentiable functions and the generators on a Hilbert-Lie group. (English and Turkish summaries) **98k:60012**
Dani, S. G. (*with* Shah, Riddhi) Collapsible probability measures and concentration functions on Lie groups. **98e:60015**
Gallardo, Léonard Chaînes de Markov à dérive stable et loi des grands nombres sur les hypergroupes. (English and French summaries) [Markov chains with stable drift and law of large numbers on hypergroups] **98f:60007**
Graczyk, Piotr (*with* Loeb, Jean Jacques) Spherical analysis and central limit theorems on symmetric spaces. (English summary) **98b:43017**
Hernández, Salvador On the existence of a Haar measure on a locally compact abelian group. (English summary)
Jaworski, Wojciech The asymptotic σ-algebra of a recurrent random walk on a locally compact group. (English summary) **98g:60011**
Koshi, S. The F. and M. Riesz theorem on locally compact abelian groups. **98c:43003**
Liu, Jin'e Strong uniform convergence of composition sequences of probability measures on locally compact topological semigroups. (English summary) **98e:60017**
Loeb, Jean Jacques *see* **Graczyk, Piotr, 98b:43017**
Neuenschwander, Daniel Laws of large numbers on simply connected step 2-nilpotent Lie groups. (English summary) **98k:60013**
Pap, Gyula Edgeworth expansions in nilpotent Lie groups. (English summary) **98b:60014**
Ruzsa, Imre Z. *see* **Budzban, Greg, 98d:60012**
Sauvageot, François Principe de densité pour les groupes réductifs. (English and French summaries) [A density principle for reductive groups] **98i:22025**
Shah, Riddhi Convergence-of-types theorems on p-adic algebraic groups. (English summary) **98b:22021**
— *see also* **Dani, S. G., 98e:60015**
Tonyalı, C. *see* **Argün, Z., 98j:43002**
Tortrat, Albert Sur les lois de probabilités idempotentes dans les demi-groupes. (English summary) [On idempotent probability laws in semigroups] **98d:60016**
Urban, Roman Some remarks on the random walk on finite groups. **98k:60121**

43A07 Means on groups, semigroups, etc.; amenable groups

Bekka, Mohammed El Bachir On uniqueness of invariant means. (English summary) **98d:43002**
Grigorchuk, Rostislav On a problem of M. Day on nonelementary amenable groups in the class of finitely presented groups. (Russian)
Ling, Joseph M. Inner amenable semigroups. I. **98g:43002**
Miao, Tianxuan Compactness of a locally compact group G and geometric properties of $A_p(G)$. (English summary) **98g:43003**
Pourbarat, Kh. Amenable weighted hypergroups. (English summary) **98b:43006**
Riazi, Abdolhamid Amenability and representation of locally compact groups. (English summary) (*see* **98h:00035**)
— Amenability of open subsemigroups of locally compact groups. (*see* **98h:00035**)

Items with secondary classifications in 43A07

Bédos, Erik On Følner nets, Szegő's theorem and other eigenvalue distribution theorems. (English summary) **98h:47065a**
— *see also* **Errata: "On Følner nets, Szegő's theorem and other eigenvalue distribution theorems", 98h:47065b**
Giordano, Thierry (*with* de la Harpe, Pierre) Moyennabilité des groupes dénombrables et actions sur les espaces de Cantor. (English and French summaries) [Amenability of countable groups and actions on Cantor sets] **98c:54032**
Goodings, D. A. *see* **Tong, Pei Qing, 98f:81071**
Granirer, Edmond E. Day points for quotients of the Fourier algebra $A(G)$, extreme nonergodicity of their duals and extreme non-Arens regularity. **98c:43005**
Grigorchuk, Rostislav Weight functions on groups, and criteria for the amenability of Beurling algebras. (Russian. Russian summary) **98a:43003**
de la Harpe, Pierre *see* **Giordano, Thierry, 98c:54032**
Kaimanovich, Vadim A. Amenability, hyperfiniteness, and isoperimetric inequalities. (English and French summaries) **98j:28014**
Northshield, Sam A note on recurrence, amenability, and the universal cover of graphs. (English summary) **98c:31010**
Pestov, V. Some universal constructions in abstract topological dynamics. (English summary) **98j:54074**
Qiu, Cheng Yi Amenability and introversion operators [translation operators] for compact topological groups. (Chinese. English and Chinese summaries) **98g:22004**
Shalom, Yehuda The growth of linear groups. (English summary) **98m:20058**
Tong, Pei Qing (*with* Goodings, D. A.) Application of Bogomolny's transfer operator to a circular harmonic oscillator plus $1/r^2$ potential. (English summary) **98f:81071**

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"On Følner nets, Szegő's theorem and other eigenvalue distribution theorems" Erratum: "On Følner nets, Szegő's theorem and other eigenvalue distribution theorems" [Exposition. Math. **15** (1997), no. 3, 193–228; MR 98h:47065a] by E. Bédos. **98h:47065b**

43A10 Measure algebras on groups, semigroups, etc.

Ghahramani, F. (*with* McClure, J. P.) The second dual algebra of the measure algebra of a compact group. (English summary) **98f:43001**
McClure, J. P. *see* **Ghahramani, F., 98f:43001**
Medgalchi, A. R. Isometric isomorphisms on the dual and second dual of a hypergroup. **98g:43004**
Rejali, A. The analogue of weighted group algebra for semitopological semigroups. (English summary) **98f:43002**
Seferoğlu, H. Spectral mapping theorem for representations of measure algebras. (English summary) **98f:43003**

Items with secondary classifications in 43A10

Argün, Z. (*with* Tonyalı, C.) Weak*-invariantly complemented subspaces of $L^\infty(1/\omega)$ and ideals of $L^1(\omega)$ with a bounded approximate identity. (English and Turkish summaries) **98j:43002**

Grundling, Hendrik B. A group algebra for inductive limit groups. Continuity problems of the canonical commutation relations. (English summary) **98k:22026**

Hilgert, Joachim (*with* Neeb, Karl-Hermann) Spherical functions on Ol′shanskiĭ spaces. (English summary) **98c:43015**

Koshi, S. The F. and M. Riesz theorem on locally compact abelian groups. **98c:43003**

Lau, Anthony T. M. (*with* Loy, R. J.) Amenability of convolution algebras. (English summary) **98i:46046**

— (*with* Loy, R. J.) Weak amenability of Banach algebras on locally compact groups. (English summary) **98b:46068**

Loy, R. J. *see* **Lau, Anthony T. M., 98b:46068** *and* **98i:46046**

Neeb, Karl-Hermann *see* **Hilgert, Joachim, 98c:43015**

Neuenschwander, Daniel Uniqueness of roots in $l^1(\Gamma, N_0)$ over lattices in simply connected nilpotent Lie groups. (English summary) **98k:22033**

Tonyalı, C. *see* **Argün, Z., 98j:43002**

Yamaguchi, Hiroshi[2] An F. and M. Riesz theorem on compact groups. **98b:43004**

— The space $N(\sigma)$ and the F. and M. Riesz theorem. (English summary) **98b:43005**

43A15 L^p-spaces and other function spaces on groups, semigroups, etc.

Asmar, Nakhlé H. (*with* Panman, Phyllis) Weighted norm inequalities for the conjugate function on a-adic solenoids. (English summary) **98j:43001**

Blank, Brian E. (*with* Fan, Dashan) S and g_λ^*-functions on compact Lie groups. (English summary) **98f:43004**

Fan, Dashan L^p estimates for bi-invariant operators on classical groups. (English summary) **98m:43002**

— *see also* **Blank, Brian E., 98f:43004**

Panman, Phyllis *see* **Asmar, Nakhlé H., 98j:43001**

Puls, Michael J. Zero divisors and $L^p(G)$. (English summary) **98k:43001**

Sarkar, Rudra P. Wiener Tauberian theorems for $SL_2(\mathbf{R})$. (English summary) **98m:43003**

Setti, Alberto G. L^p and operator norm estimates for the complex time heat operator on homogeneous trees. (English summary) **98f:43005**

Zheng, Wei Xing *see* **Zhou, Guang Cai, 98b:43007**

Zhou, Guang Cai (*with* Zheng, Wei Xing) Equivalent characterizations of Hardy spaces. (Chinese. English and Chinese summaries) **98b:43007**

Items with secondary classifications in 43A15

Alboth, Dirk Unbounded translation invariant operators and the derivation property. **98h:47040**

Argün, Z. (*with* Tonyalı, C.) Weak*-invariantly complemented subspaces of $L^\infty(1/\omega)$ and ideals of $L^1(\omega)$ with a bounded approximate identity. (English and Turkish summaries) **98j:43002**

Carro, Maria J. (*with* Soria, Javier) Transference theory on Hardy and Sobolev spaces. (English summary) **98m:42028**

Christensen, Ole Atomic decomposition via projective group representations. (English summary) **98h:43004**

Grinnell, Raymond J. Convolution mapping properties of Lorentz-improving measures. (English summary) **98d:43001**

— A duality theorem for multipliers of Lorentz spaces. (English summary) **98f:43006**

— Lorentz-improving measures on hypergroups. (English summary) **98b:43003**

— An eigenspace characterization of Lorentz-improving measures on compact groups. (English summary) **98i:43001**

Kim, Yonne Mi An extension theorem for the Folland-Stein spaces. **98a:42016**

Lo, Wai Lok (*with* Nillsen, Rodney) Differences of functions and group generators for compact abelian groups. (English summary) **98i:22006**

Muraz, Gilbert (*with* Szeptycki, Pawel) Domains of trigonometric transforms. (English summary) **98i:47031**

Neeb, Karl-Hermann On weighted Hardy spaces on complex semigroups. (English summary) **98m:46037**

Nillsen, Rodney *see* **Lo, Wai Lok, 98i:22006**

Pandey, Sheel Sindhu Multipliers for weighted Segal algebras of Beurling type. (English summary) **98c:43004**

Quek, T. S. Littlewood-Paley and multiplier theorems on weighted spaces over locally compact Vilenkin groups. (English summary) **98i:43002**

Shu, Li Sheng The Plancherel formula for the Fourier transform on $SL(2, \mathbf{R})$. (Chinese. English and Chinese summaries) **98h:22009**

Soria, Javier *see* **Carro, Maria J., 98m:42028**

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Taibleson, Mitchell H. Factorization of the Green's kernel for non-nearest neighbor random walks. (*see* **98b:31001**)

Tonyalı, C. *see* **Argün, Z., 98j:43002**

Younis, Mohammed S. The L^2-order of magnitude of Vilenkin-Fourier coefficients. (English summary) **98k:42035**

43A17 Analysis on ordered groups, H^p-theory

Asmar, Nakhlé H. (*with* Kelly, B. P.; Montgomery-Smith, Stephen J.) A note on UMD spaces and transference in vector-valued function spaces. (English summary) **98b:43008**

— (*with* Montgomery-Smith, Stephen J.) Hardy martingales and Jensen's inequality. (English summary) **98k:43002**

Kelly, B. P. *see* **Asmar, Nakhlé H.; et al., 98b:43008**

Koshi, S. The F. and M. Riesz theorem on locally compact abelian groups. **98c:43003**

Montgomery-Smith, Stephen J. *see* **Asmar, Nakhlé H.; et al., 98b:43008** *and* **98k:43002**

Items with secondary classifications in 43A17

Dooley, Anthony H. (*with* Gupta, Sanjiv Kumar) On norms of trigonometric polynomials on SU(2). (English summary) **98b:43015**

Gupta, Sanjiv Kumar *see* **Dooley, Anthony H., 98b:43015**

Lancien, F. Basis in the big disk algebra and in the corresponding Hardy-space. (English summary) **98j:46022**

Mirotin, A. R. The Paley-Wiener theorem for cones in locally compact abelian groups. (Russian) **98e:43002**

Müller, Paul F. X. Rearrangements of the Haar system that preserve BMO. **98g:42045**

Neeb, Karl-Hermann On weighted Hardy spaces on complex semigroups. (English summary) **98m:46037**

43A20 L^1-algebras on groups, semigroups, etc.

Agrawal, M. R. (*with* Tewari, U. B.) On existence of finite universal Korovkin sets in the centre of group algebras. (English summary) **98a:43002**

Argün, Z. (*with* Tonyalı, C.) Weak*-invariantly complemented subspaces of $L^\infty(1/\omega)$ and ideals of $L^1(\omega)$ with a bounded approximate identity. (English and Turkish summaries) **98j:43002**

Ben Natan, Yaakov (*with* Benyamini, Yoav; Hedenmalm, Håkan; Weit, Yitzhak) Wiener's Tauberian theorem for spherical functions on the automorphism group of the unit disk. (English summary) **98b:43009**

Benyamini, Yoav *see* **Ben Natan, Yaakov; et al., 98b:43009**

Blackmore, T. D. Derivations from totally ordered semigroup algebras into their duals. (English summary) **98k:43003**

— Weak amenability of discrete semigroup algebras. **98h:43001**

Carleson, Lennart Wiener's Tauberian theorem. **98k:43004**

Grigorchuk, Rostislav Weight functions on groups, and criteria for the amenability of Beurling algebras. (Russian. Russian summary) **98a:43003**

Hedenmalm, Håkan *see* **Ben Natan, Yaakov; et al., 98b:43009**

Saghafi, Anahita On the L^1-algebras of some compact totally ordered spaces. **98g:43005**

Tewari, U. B. *see* **Agrawal, M. R., 98a:43002**

Tonyalı, C. *see* **Argün, Z., 98j:43002**

Weit, Yitzhak *see* **Ben Natan, Yaakov; et al., 98b:43009**

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Benson, Chal (*with* Jenkins, Joe; Lipsman, Ronald L.; Ratcliff, Gail) A geometric criterion for Gelfand pairs associated with the Heisenberg group. (English summary) **98i:22012**

Chojnacki, Wojciech On the equivalence of a theorem of Kisyński and the Hille-Yosida generation theorem. (English summary) **98d:46050**

Feichtinger, Hans G. Amalgam spaces and generalized harmonic analysis. (English summary) **98e:40005**

Font, Juan J. (*with* Hernández, Salvador) Algebraic characterizations of locally compact groups. (English summary) **98c:47039**

Garimella, Ramesh V. On continuity of derivations and epimorphisms on some vector-valued group algebras. (English summary) **98j:46047**

Gourdeau, Frédéric Amenability and the second dual of a Banach algebra. (English summary) **98g:46065**

Hernández, Salvador *see* **Font, Juan J., 98c:47039**

Huang, Sen-Zhong (*with* van Neerven, Jan; Räbiger, Frank) Ditkin's condition for certain Beurling algebras. (English summary) **98k:43009**

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43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

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McClure, J. P. *see* **Ghahramani, F.**, **98f:43001**
Medgalchi, A. R. Isometric isomorphisms on the dual and second dual of a hypergroup. **98g:43004**
Mustapha, Sami Multiplicateurs spectraux sur certains groupes non-unimodulaires. [Spectral multipliers on certain nonunimodular groups] **98k:22032**

43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

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Gulisashvili, A. Rearrangements of functions on a locally compact abelian group and integrability of the Fourier transform. (English summary) **98m:43007**
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Yamaguchi, Hiroshi[2] An F. and M. Riesz theorem on compact groups. **98b:43004**
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Younis, Mohammed S. The L^2-order of magnitude of Vilenkin-Fourier coefficients. (English summary) **98k:42035**

43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

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43A32 Other transforms and operators of Fourier type

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Rockmore, Daniel N. Some applications of generalized FFTs. (English summary) **98e:65116**

43A35 Positive definite functions on groups, semigroups, etc.

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— Semigroups of moment functions. **98e:43003**
Blümlinger, Martin Functions with a finite number of negative squares on compact groups. **98c:43006**
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— Positive functionals on Lau Banach $*$-algebras with application to negative-definite functions on foundation semigroups. **98j:43004**
Malyugin, S. A. Inequalities for majorizable mappings. (Russian. Russian summary) **98h:43002**
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Alegría Ezquerra, Pedro Generalized Bochner theorem and Levy-Khinchine representation for completely positive definite generalized Toeplitz kernels. (English summary) **98d:47054**
Corwin, Lawrence (*with* Moore, Calvin C.) L^p matrix coefficients for nilpotent Lie groups. (English summary) **98b:22013**
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43A40 Character groups and dual objects

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Niango, D. N. Équation fonctionnelle de d'Alembert sur un groupe localement compact. (French summary) [The d'Alembert functional equation on a locally compact group] **98m:39069**

43A45 Spectral synthesis on groups, semigroups, etc.

Datry, C. (*with* Muraz, Gilbert) Analyse harmonique dans les modules de Banach. II. Presque-périodicité et ergodicité. (English and French summaries) [Harmonic analysis in Banach modules. II. Almost periodicity and ergodicity] **98m:43009**
Gröchenig, Karlheinz Aspects of Gabor analysis on locally compact abelian groups. (English summary) (*see* **98h:42001**)
Huang, Sen-Zhong (*with* van Neerven, Jan; Räbiger, Frank) Ditkin's condition for certain Beurling algebras. (English summary) **98k:43009**
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43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

Dani, S. G. (*with* Navada, K. Gowri) Harmonious orbits of linear transformations. (English summary) **98f:43010**
Dechamps-Gondim, Myriam (*with* Sellès, O.) Compacts associés aux sommes de suites lacunaires. (English and French summaries) [Compact subsets associated with sums of lacunary sequences] **98c:43009**
Matheron, Etienne The descriptive complexity of Helson sets. **98h:43003**
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Items with secondary classifications in 43A46

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— An eigenspace characterization of Lorentz-improving measures on compact groups. (English summary) **98i:43001**
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43A50 Convergence of Fourier series and of inverse transforms

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Items with secondary classifications in 43A50

Fan, Dashan Cesàro kernels on classical groups. (English summary) **98m:43011**

43A55 Summability methods on groups, semigroups, etc. [see also 40J05]

Items with secondary classifications in 43A55

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43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

Basit, Bolis (*with* Zhang, Chuanyi) New almost periodic type functions and solutions of differential equations. (English summary) **98c:43010**
Ebrahimi-Vishki, H. R. (*with* Pourabdollah, Mohammad Ali) On universal commutative compactification of semigroups. (English summary) (*see* **98h:00035**)
Pourabdollah, Mohammad Ali Inclusion relations concerning weakly almost periodic functions and functions vanishing at infinity. (English summary) **98a:43007**
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Zhang, Chuanyi *see* **Basit, Bolis, 98c:43010**

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Filali, Mahmoud A note on distal functions. (English summary) **98k:54075**
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Mayer, Matthias Strongly mixing groups. **98k:43012**
Rejali, A. The analogue of weighted group algebra for semitopological semigroups. (English summary) **98f:43002**
Zhang, Chuanyi Vector-valued pseudo almost periodic functions. (English summary) **98i:42002**

43A62 Hypergroups

Ehring, Martin Large deviations on one-dimensional hypergroups. (English summary) **98b:43012**
Gallardo, Léonard (*with* Trimèche, Khélifa) L'équation de Poisson et les noyaux de Green associés à un opérateur différentiel singulier sur $\mathbf{R}_+$. (English and French summaries) [The Poisson equation and the Green kernels associated with a singular differential operator on $\mathbf{R}_+$] **98f:43011**
— Asymptotic drift of the convolution and moment functions on hypergroups. **98g:43009**
Gebuhrer, Marc-Olivier (*with* Schwartz, Alan Lee) Sidon sets and Riesz sets for some measure algebras on the disk. (English summary) **98c:43011**
Nessibi, M. M. (*with* Trimèche, Khélifa) Inversion of the Radon transform on the Laguerre hypergroup by using generalized wavelets. (English summary) **98k:43010**
Obata, Nobuaki (*with* Wildberger, Norman J.) Generalized hypergroups and orthogonal polynomials. **98c:43012**
Schwartz, Alan Lee *see* **Gebuhrer, Marc-Olivier, 98c:43011**
Trimèche, Khélifa *see* **Gallardo, Léonard, 98f:43011** *and* **Nessibi, M. M., 98k:43010**
Voit, Michael Discrete hypergroups constructed by successive substitutions. (English summary) **98b:43013**
— Hypergroups with invariant metric. (English summary) **98k:43011**
Wildberger, Norman J. Hypergroups, symmetric spaces, and wrapping maps. (English summary) **98b:43014**
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Berezanskiĭ, Yuriĭ Makarovich Generalized functions, connected with differential hypergroups. (English summary) **98c:46080**
Floris, Paul G. A. A noncommutative discrete hypergroup associated with q-disk polynomials. (English summary) **98d:33010**
Gallardo, Léonard Chaînes de Markov à dérive stable et loi des grands nombres sur les hypergroupes. (English and French summaries) [Markov chains with stable drift and law of large numbers on hypergroups] **98f:60007**
Grinnell, Raymond J. Lorentz-improving measures on hypergroups. (English summary) **98b:43003**
Lasser, Rupert On the modified moment problem with solution carried by $[-1,1]$. (English summary) **98c:44012**
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Massouros, Gerasimos G. (*with* Massouros, Christos G.; Mittas, I. D.) Fortified join hypergroups. (English summary) **98a:20079**
Medgalchi, A. R. Isometric isomorphisms on the dual and second dual of a hypergroup. **98g:43004**
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Trimèche, Khélifa Inversion of the Lions transmutation operators using generalized wavelets. (English summary) **98d:34046**
Voit, Michael Asymptotic behavior of heat kernels on spheres of large dimensions. (English summary) **98d:60017**
— Limit theorems for compact two-point homogeneous spaces of large dimensions. (English summary) **98g:43001**
— Rate of convergence to Gaussian measures on n-spheres and Jacobi hypergroups. (English summary) **98f:60138**
Zeuner, Hansmartin Lindeberg type central limit theorems on one-dimensional hypergroups. (English summary) **98j:60008**

43A65 Representations of groups, semigroups, etc. [see also 22A10, 22A20, 22Dxx, 22E45]

Christensen, Ole Atomic decomposition via projective group representations. (English summary) **98a:43004**
Mayer, Matthias Strongly mixing groups. **98k:43012**

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ter Elst, A. F. M. (*with* Robinson, Derek W.) Subcoercivity and subelliptic operators on Lie groups. I. Free nilpotent groups. (English summary) **98c:22006**
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He, Zhiping A unique continuation property for wavelet transforms. (English summary) **98j:42020**
Hörmann, Günther Regular Weyl-systems and smooth structures on Heisenberg groups. (English summary) **98j:81173**
LeTourneux, Jean *see* **Floreanini, Roberto; et al., 98k:33036**
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Mlotkowski, Wojciech Free product of representations. (*see* **98b:31001**)
Murphy, Gerard J. Type I Toeplitz algebras. (English summary) **98d:46080**
Neeb, Karl-Hermann A general non-linear convexity theorem. (English summary) **98k:22030**
Pestov, V. Some universal constructions in abstract topological dynamics. (English summary) **98j:54074**
Pisier, Gilles ★ Similarity problems and completely bounded maps. **98d:47002**
Płonka, Ernest On a method of determining supports of Thoma's characters of discrete groups. (English summary) **98m:22006**
Robinson, Derek W. *see* **ter Elst, A. F. M., 98c:22006** *and* **98c:22007**
Vinet, Luc *see* **Floreanini, Roberto; et al., 98k:33036**
Vũ Quốc Phóng Almost periodic and strongly stable semigroups of operators. **98d:47001**

43A70 Analysis on specific locally compact abelian groups [see also 11R56, 22B05]

Zheng, Shijun Riesz type kernels over the ring of integers of a local field. (English summary) **98i:43003**

— (*with* Zheng, Wei Xing) Almost everywhere convergence of sequences of multiplier operators on local fields. (English summary) **98g:43010**

Zheng, Wei Xing *see* **Zheng, Shijun, 98g:43010**

Zou, Jin Paracommutators on local fields. (Chinese. English and Chinese summaries) **98g:43011**

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Asmar, Nakhlé H. (*with* Panman, Phyllis) Weighted norm inequalities for the conjugate function on **a**-adic solenoids. (English summary) **98j:43001**

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Quek, T. S. Littlewood-Paley and multiplier theorems on weighted spaces over locally compact Vilenkin groups. (English summary) **98i:43002**

Sauvageot, François Principe de densité pour les groupes réductifs. (English and French summaries) [A density principle for reductive groups] **98i:22025**

43A75 Analysis on specific compact groups

Dooley, Anthony H. (*with* Gupta, Sanjiv Kumar) On norms of trigonometric polynomials on SU(2). (English summary) **98b:43015**

Fan, Dashan Cesàro kernels on classical groups. (English summary) **98m:43011**

Geshwind, Frank (*with* Katz, Nets Hawk) Pseudodifferential operators on SU(2). (English summary) **98b:43016**

Gupta, Sanjiv Kumar *see* **Dooley, Anthony H., 98b:43015**

Katz, Nets Hawk *see* **Geshwind, Frank, 98b:43016**

Su, Weiyi Gibbs-Butzer differential operators on locally compact Vilenkin groups. (English summary) **98c:43013**

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Blank, Brian E. (*with* Fan, Dashan) S and g_λ^*-functions on compact Lie groups. (English summary) **98f:43004**

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Fan, Dashan *see* **Blank, Brian E., 98f:43004**

Gross, Kenneth I. *see* **Richards, Donald St. P., 98a:33003**

Richards, Donald St. P. (*with* Gross, Kenneth I.) Total positivity, harmonic analysis and random walks on Weyl chambers. (English summary) **98a:33003**

Schipp, Ferenc (*with* Weisz, Ferenc) Tree martingales and a.e. convergence of Vilenkin-Fourier series. (English summary) **98a:42017**

Travaglini, Giancarlo *see* **Brandolini, Luca, 98m:42010**

Voit, Michael Limit theorems for compact two-point homogeneous spaces of large dimensions. (English summary) **98g:43001**

Wade, William R. Dyadic harmonic analysis. (English summary) **98m:42046**

Weisz, Ferenc *see* **Schipp, Ferenc, 98a:42017**

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— The automorphism group of a p-adic convolution algebra. **98k:11177**

Younis, Mohammed S. The L^2-order of magnitude of Vilenkin-Fourier coefficients. (English summary) **98k:42035**

Zheng, Shijun Riesz type kernels over the ring of integers of a local field. (English summary) **98i:43003**

43A77 Analysis on general compact groups

Items with secondary classifications in 43A77

Amstler, Clemens Some remarks on a discrepancy in compact groups. (English summary) **98c:11078**

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43A80 Analysis on other specific Lie groups [see also 22Exx]

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43A90 Spherical functions [see also 22E45, 22E46, 33C65, 33D55]

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44–XX Integral transforms, operational calculus {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10.}

44–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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44A10 Laplace transform

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44A12 Radon transform [see also 92C55]

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44A15 Special transforms (Legendre, Hilbert, etc.)

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44A20 Transforms of special functions

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44A30 Multiple transforms

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44A35 Convolution

Raina, R. K. (*with* Yakubovich, Semën B.; Saïgo, Megumi) On convolution integrals associated with H-transforms. (English summary) **98i:44003**
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Meyer, Thomas Surjectivity of convolution operators on spaces of ultradifferentiable functions of Roumieu type. (English summary) **98e:46045**
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44A40 Calculus of Mikusiński and other operational calculi

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44A55 Discrete operational calculus

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44A60 Moment problems

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Bultheel, Adhemar (*with* González-Vera, P.; Hendriksen, E.; Njåstad, Olav) Orthogonal rational functions and nested disks. (English summary) **98e:44004**
Duchoň, Miloslav (*with* Riečan, Beloslav) Generalized moment problem in vector lattices. (English summary) **98g:44003**
Estrada, Ricardo Vector moment problems for rapidly decreasing smooth functions of several variables. (English summary) **98e:44005**
Frontini, Marco (*with* Tagliani, Aldo) Entropy-convergence, instability in Stieltjes and Hamburger moment problems. (English summary) (*see* **98b:33001**)
— (*with* Tagliani, Aldo) Entropy-convergence in Stieltjes and Hamburger moment problem. (English summary) **98f:44003**
González-Vera, P. *see* **Bultheel, Adhemar; et al., 98e:44004**
Guichal, Edgardo (*with* Paolini, Graciela) Characterization of the moment space of a sequence of exponentials. (English summary) **98j:44004**
Haidar, Nassar H. S. A nonlinear method for a severely ill-posed generalized moment problem. (English summary) **98j:44005**
Hendriksen, E. *see* **Bultheel, Adhemar; et al., 98e:44004**
Kats, I. S. (*with* Nudelman, Adolf Abramovich) The Stieltjes strong moment problem. (Russian. Russian summary) **98e:44006**
— Power moments of negative orders of the principal spectral function of a string. (Russian. English and Ukrainian summaries) **98f:44004**
Lasser, Rupert On the modified moment problem with solution carried by $[-1, 1]$. (English summary) **98c:44012**
Nævdal, Geir On a generalization of the trigonometric moment problem. (English summary) **98c:44013**
Njåstad, Olav *see* **Bultheel, Adhemar; et al., 98e:44004**
Nudelman, Adolf Abramovich *see* **Kats, I. S., 98e:44006**
Pan, K. C. Moment problem for rational orthogonal functions on the unit circle. (English summary) **98e:44007**
Paolini, Graciela *see* **Guichal, Edgardo, 98j:44004**
Popov, A. Yu. On the moment problem for rapidly decreasing functions. (Russian. Russian summary) **98f:44005**
Riečan, Beloslav *see* **Duchoň, Miloslav, 98g:44003**
Tagliani, Aldo *see* **Frontini, Marco, 98f:44003** *and* (**98b:33001**)
Tatalyan, K. R. Alternance and snakes in the nonlinear finite moment problem. (English summary) **98b:44004**
Valent, Galliano Co-recursivity and Karlin-McGregor duality for indeterminate moment problems. (English summary) **98c:44014**

Items with secondary classifications in 44A60

Balser, Werner Moment methods and formal power series. (English summary) **98m:34114**
Berg, Christian (*with* Durán Guardeño, Antonio J.) Measures with finite index of determinacy or a mathematical model for Dr. Jekyll and Mr. Hyde. (English summary) **98c:42021**
Charris, Jairo A. (*with* Prieto, Yadira L.) On distributional representations of moment functionals: sieved Pollaczek polynomials. (English and Spanish summaries) **98b:33021**
Chen, Gong-ning The general rational interpolation problem and its connection with the Nevanlinna-Pick interpolation and power moment problem. (English summary) **98m:47015**
Cooper, S. Clement (*with* Gustafson, Philip E.) Extremal properties of strong quadrature weights and maximal mass results for truncated strong moment problems. (English summary) **98c:41044**
Debiève, Camille (*with* Duchoň, Miloslav; Riečan, Beloslav) Moment problem in some ordered vector spaces. (English summary) **98k:28032**
Derkach, V. A. On indefinite moment problems and resolvent matrices of Hermitian operators in Krein spaces. (English summary) **98a:47013**
Duchoň, Miloslav *see* **Debiève, Camille; et al., 98k:28032**
Durán Guardeño, Antonio J. (*with* Lopez-Rodriguez, Pedro) Density questions for the truncated matrix moment problem. (English summary) **98m:42035**
— (*with* Lopez-Rodriguez, Pedro) The $\mathscr{L}^p$ space of a positive definite matrix of measures and density of matrix polynomials in $\mathscr{L}^1$. (English summary) **98b:46022**
— *see also* **Berg, Christian, 98c:42021**
Dyukarev, Yu. M. Integral representations of a pair of nonnegative operators and interpolation problems in the Stieltjes class. (English summary) **98k:30053**
Fischer, Hans-Jürgen On the condition of orthogonal polynomials via modified moments. (English summary) **98c:33008**
Gaeva, Z. S. (*with* Shananin, A. A.) The Markov-Chebyshev moment problem and the investigation of Galerkin approximations in a problem of crystal aggregation. (Russian. English and Russian summaries) **98k:86001**
Gautschi, Walter Moments in quadrature problems. (English summary) **98j:41034**
Girardin, Valerie Méthodes de réalisation de produit scalaire et de problème de moments avec maximisation d'entropie. (English summary) [Methods for scalar product and moment problem realization with entropy maximization] **98h:47020**
Gustafson, Philip E. *see* **Cooper, S. Clement, 98c:41044**
Katsnelson, Victor Emanuelovich On transformations of Potapov's fundamental matrix inequality. (English summary) **98j:47035**
Lopez-Rodriguez, Pedro *see* **Durán Guardeño, Antonio J., 98i:46022** *and* **98m:42035**
Prieto, Yadira L. *see* **Charris, Jairo A., 98b:33021**
Putinar, Mihai A dilation theory approach to cubature formulas. (English summary) **98d:47025**
— An interpolation problem in tube domains. (English summary) **98h:47022**
Riečan, Beloslav *see* **Debiève, Camille; et al., 98k:28032**
Shananin, A. A. *see* **Gaeva, Z. S., 98k:86001**
Urbanik, K. A characterization of probability measures by f-moments. (English summary) **98k:60022**
Vasilescu, Florian-Horia Moment problems for multi-sequences of operators. (English summary) **98m:47018**

44A99 Miscellaneous topics

Items with secondary classifications in 44A99

Estrada, Ricardo *see* **Ulate, Carlos M., 98b:46055**
Li, Yuying Piecewise differentiable minimization for ill-posed inverse problems. (English summary) **98f:65067**
Nishimoto, Katsuyuki ★ Fractional calculus. Vol. V. **98b:26005**
— Kummer's twenty-four functions and N-fractional calculus. (English summary) (*see* **98i:00028**)
Oshima, Toshio Generalized Capelli identities and boundary value problems for $\mathrm{GL}(n)$. (English summary) **98f:22021**
Pap, Endre (*with* Ralević, Nebojša M.) Applications of pseudo-analysis on nonlinear equations. (English summary) (*see* **98h:00033**)
Ralević, Nebojša M. *see* **Pap, Endre, (98h:00033)**
Romanov, V. G. A conditional stability theorem in the problem of determining the dispersion index and relaxation for the stationary transport equation. (English summary) **98f:45006**
Schempp, Walter Wavelet modelling of high resolution radar imaging and clinical magnetic resonance tomography. **98f:22026**
Setti, Alberto G. L^p and operator norm estimates for the complex time heat operator on homogeneous trees. (English summary) **98f:43005**
Ulate, Carlos M. (*with* Estrada, Ricardo) Expansion of distributional kernels of the type $f(\lambda \mathbf{x}, \mathbf{x})$, as $\lambda \to \infty$. **98b:46055**

45–XX Integral equations

45–01 Instructional exposition (textbooks, tutorial papers, etc.)

Hackbusch, Wolfgang ★ Integralgleichungen. (German) [Integral equations] **98m:45001**
Kanwal, Ram P. ★ Linear integral equations. (English summary) **98c:45001**

Items with secondary classifications in 45–01

Rus, Ioan A. ★ Ecuaţii diferenţiale, ecuaţii integrale şi sisteme dinamice. (Romanian) [Differential equations, integral equations and dynamical systems] **98a:34001**

45–02 Research exposition (monographs, survey articles)

Chen, Ching Shyang *see* **Golberg, M. A., 98c:45002**
Golberg, M. A. (*with* Chen, Ching Shyang) ★ Discrete projection methods for integral equations. (English summary) **98c:45002**
Guo, Dajun (*with* Lakshmikantham, V.; Liu, Xinzhi) ★ Nonlinear integral equations in abstract spaces. (English summary) **98a:45001**
Lakshmikantham, V. *see* **Guo, Dajun; et al., 98a:45001**
Liu, Xinzhi *see* **Guo, Dajun; et al., 98a:45001**

45–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 45–03

Brunner, Hermann 1896–1996: one hundred years of Volterra integral equations of the first kind. (English summary) **98g:01049**
(Volterra, Vito) *see* **Brunner, Hermann, 98g:01049**

45–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 45–04

Anthonissen, M. J. H. (*with* Boersma, Johannes) ★ Calculations in Mathematica on low-frequency diffraction by a circular disk. (English summary) **98m:78021**
Boersma, Johannes *see* **Anthonissen, M. J. H., 98m:78021**

45–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 45–06

(Cloude, S. R.) *see* **Direct and inverse electromagnetic scattering, 98b:00024**
(Constanda, Christian) *see* **Integral methods in science and engineering, 98i:00021** *and* **98i:00022**
(Feldstein, Alan) *see* **Volterra centennial, 98b:65008**
(Jackiewicz, Z.) *see* **Volterra centennial, 98b:65008**
(Saranen, J.) *see* **Integral methods in science and engineering, 98i:00021** *and* **98i:00022**
(Seikkala, S.) *see* **Integral methods in science and engineering, 98i:00021** *and* **98i:00022**
(Serbest, A. Hamit) *see* **Direct and inverse electromagnetic scattering, 98b:00024**
(Volterra, Vito) *see* **Volterra centennial, 98b:65008**

Items listed otherwise than by author

Anniversary:
  Publication of "Sulla inversione degli integrali definiti, Nota I–IV" by Vito Volterra ★ Volterra centennial. **98b:65008**
Conference:
  Integral Methods in Science and Engineering ★ Integral methods in science and engineering. Vol. 1. **98i:00021**
  — ★ Integral methods in science and engineering. Vol. 2. **98i:00022**
  Numerical Solution of Volterra and Delay Equations ★ Volterra centennial. **98b:65008**
Direct and inverse electromagnetic scattering ★ Direct and inverse electromagnetic scattering. **98b:00024**
Gebze ★ Direct and inverse electromagnetic scattering. **98b:00024**
Integral methods in science and engineering ★ Integral methods in science and engineering. Vol. 1. **98i:00021**
— ★ Integral methods in science and engineering. Vol. 2. **98i:00022**
Oulu ★ Integral methods in science and engineering. Vol. 1. **98i:00021**
— ★ Integral methods in science and engineering. Vol. 2. **98i:00022**
Tempe, AZ ★ Volterra centennial. **98b:65008**
Volterra centennial ★ Volterra centennial. **98b:65008**
Workshop:
  Direct and Inverse Electromagnetic Scattering ★ Direct and inverse electromagnetic scattering. **98b:00024**

45A05 Linear integral equations

Bai, Xue *see* **Wang, Hai Yan[3]; et al.**
Chandler-Wilde, Simon N. (*with* Zhang, Bo[1]) On the solvability and numerical treatment of a class of second kind integral equations on unbounded domains. (*see* **98i:00022**)
— (*with* Zhang, Bo[1]) On the solvability of a class of second kind integral equations on unbounded domains. (English summary) **98f:45001**
Joshi, Nitu On the inversion of convolution integral equations involving parabolic cylinder function as the kernel. (Hindi. English and Hindi summaries)
Karapetyants, Nikolai K. (*with* Mussalaeva, Z. U.) On the solvability of an integral equation of fractional order in generalized Hölder classes. (Russian. Russian summary) **98j:45001**
Liu, Hui Jie *see* **Wang, Hai Yan[3]; et al.**
Liu, Qinyu *see* **Wang, Hai Yan[3]; et al., 98m:45002**
Manzhirov, A. V. *see* **Polyanin, A. D., 98d:45001**
McLeod, J. Bryce An integral equation in probability. **98j:45002**
Mussalaeva, Z. U. *see* **Karapetyants, Nikolai K., 98j:45001**
Neshchadim, M. V. On uniqueness of solution of an integral equation of the first kind over real algebras with division of finite dimension. (English summary) **98k:45001**
Polyanin, A. D. (*with* Manzhirov, A. V.) The method of model solutions in the theory of linear integral equations. (Russian) **98d:45001**
Song, Shiji *see* **Wang, Hai Yan[3]; et al., 98m:45002**
Wang, Hai Yan[3] (*with* Bai, Xue; Liu, Hui Jie) (DG) fuzzy integral equations on L-fuzzy sets. (Chinese. English and Chinese summaries)
— (*with* Song, Shiji; Liu, Qinyu) On the basic solutions to (DG) fuzzy integral equation. (English summary) **98m:45002**
Yun, Tian Quan General solution of a 2-D weak singular integral equation with constraint and its applications. (Chinese. English and Chinese summaries)
Zhang, Bo[1] *see* **Chandler-Wilde, Simon N., 98f:45001** *and* **(98i:00022)**
Zhou, Wen Kun $S(*)$ fuzzy integral equations. (Chinese. English and Chinese summaries)

Items with secondary classifications in 45A05

Chandler-Wilde, Simon N. *see* **Zhang, Bo[1], (98i:00021)**
Maz'ya, Vladimir G. (*with* Solov'ëv, A. A.) L_p-theory of a boundary integral equation on a cuspidal contour. (English summary) **98g:35046**
Morawiec, Janusz On a linear functional equation. (English summary) **98c:39009**
Pachpatte, B. G. A note on certain integral inequalities with delay. (English summary) **98m:34163**
Solov'ëv, A. A. On integral equations for the Dirichlet and Neumann boundary value problems in a plane domain with a cusp on the boundary. (Russian. Russian summary) **98e:35043**
— *see also* **Maz'ya, Vladimir G., 98g:35046**
Stepanova, I. Ê. On the uniqueness of the solution of the integral equation for the inverse three-dimensional potential problem. The case of manifolds. (Russian)
Tracy, Craig A. (*with* Widom, Harold) The thermodynamic Bethe ansatz and a connection with Painlevé equations. (English summary) **98b:82028**
Virchenko, N. On some new types of multiple integral equations and their applications. (*see* **98i:00021**)
Widom, Harold Wiener-Hopf integral equations. (English summary) **98b:45004**
— *see also* **Tracy, Craig A., 98b:82028**
Zhang, Bo[1] (*with* Chandler-Wilde, Simon N.) An integral equation method for electromagnetic scattering by an inhomogeneous layer on a perfectly conducting plate. (*see* **98i:00021**)

45B05 Fredholm integral equations

Baginskaya, S. N. (*with* Davydov, È. G.) Fredholm equations of the first kind. (English summary) **98h:45001**
Davydov, È. G. *see* **Baginskaya, S. N., 98h:45001**
Jandhyala, V. K. (*with* Jiang, Peilei) Eigenvalues of a Fredholm integral operator and applications to problems of statistical inference. (English summary) **98b:45001**
Jiang, Peilei *see* **Jandhyala, V. K., 98b:45001**
Shulaya, D. A. On one Fredholm integral equation of third kind. (English summary) **98h:45002**
Vasil'ev, V. G. On the solution of an integral equation of the first kind. (Russian. Russian summary) (*see* **98e:00010**)
Zabreiko, Petr Petrovich The L_2-theory of linear Fredholm integral equations of the second kind. (Russian. Russian summary) **98a:45002**

Items with secondary classifications in 45B05

Asvestas, J. S. (*with* Bielefeld, B.; Deng, Yue-Fan; Glimm, James; Simanca, Santiago R.; Tangerman, F. M.) Electromagnetic scattering from large cavities: iterative methods. (English summary)
Azizov, M. Informational complexity of a local solution of Fredholm equations with analytic kernels and free terms. (Russian) **98d:65171**
Baratella, Paola A note on the convergence of product integration and Galerkin method for weakly singular integral equations. (English summary) **98g:65124**
Bel'tyukov, B. A. ★ Некоторые вопросы теории приближенных методов решения интегральных уравнений. Часть I. (Russian. Russian summary) [Some problems in the theory of approximate methods for solving integral equations. Part I.] **98e:45012**
Bertram, Barbara S. (*with* Ruehr, Otto G.) Numerical transformations of divergent Neumann sequences for Fredholm integral equations of the second kind. (English summary) (*see* **98d:41001**)
Bielefeld, B. *see* **Asvestas, J. S.; et al.**
Constanda, Christian Fredholm equations of the first kind in the theory of bending of elastic plates. (English summary) **98a:73038**
Deng, Yue-Fan *see* **Asvestas, J. S.; et al.**
Fang, Gen Sun Optimization of approximate solutions to a class of multivariate Fredholm integral equations. (Chinese. English and Chinese summaries) **98j:45010**
Gamboa, F. (*with* Gzyl, Henryk) Solving Fredholm equations by maximum entropy on the mean. Application to superresolution. (English summary) **98c:45016**
Glimm, James *see* **Asvestas, J. S.; et al.**
Gryn', V. I. Transformation of an Abel-type integral equation with nonsmooth data to an integral equation of the second kind. (Russian. Russian summary) **98a:45006**
— Correction to: "Transformation of an Abel-type integral equation with nonsmooth data to an integral equation of the second kind" [Zh. Vychisl. Mat. Mat. Fiz. **37** (1997), no. 1, 85–106; MR 98a:45006]. (Russian)
Gzyl, Henryk *see* **Gamboa, F., 98c:45016**
Hernández-Lerma, Onésimo (*with* Lasserre, Jean B.) Cone-constrained linear equations in Banach spaces. (English summary) **98i:90125**
Hu, Ri-zhang (*with* Micchelli, Charles A.; Xu, Yuesheng) Weakly singular Fredholm integer equations. II. Singularity preserving wavelet-collocation methods. (English summary) **98h:65065**

Iwasaki, Katsunori (*with* Kamimura, Yutaka) An inverse bifurcation problem and an integral equation of the Abel type. (English summary) **98e:34038**
Kamimura, Yutaka *see* **Iwasaki, Katsunori**, **98e:34038**
Kohr-Ile, Mirela An integral formulation for two-dimensional Stokes flows past obstacles in a half-plane. (English summary) **98h:76028**
Kozhevnikov, A. N. (*with* Skubachevskaya, Tat'yana) Some applications of pseudo-differential operators to elasticity. (English summary) **98h:35183**
Krutitskii, Pavel A. A mixed problem for the Helmholtz equation outside cuts on the plane. (Russian. Russian summary) **98m:35030**
— The 2-D Neumann problem in an exterior domain bounded by closed and open curves. (English summary) **98m:35039**
— The skew derivative problem in the exterior of open curves in a plane. (English summary) **98h:35047**
— The Dirichlet problem for the 2-D Helmholtz equation in a multiply connected domain with cuts. (English summary) **98m:35041**
— Wave propagation in a 2-D external domain bounded by closed and open curves. **98m:35040**
Lasserre, Jean B. *see* **Hernández-Lerma, Onésimo**, **98i:90125**
Lepp, Riho Discretization of regularized integral equations in L^∞. (English summary) **98h:45014**
Lin, Qun[1] *see* **Shi, Jun[1]**, **98a:45011**
Mansky, E. J. An open problem in the numerical analysis of systems of Volterra integral equations of the second kind in two space-like variables. (English summary) (*see* **98b:65008**)
Micchelli, Charles A. (*with* Xu, Yuesheng) Weakly singular Fredholm integral equations. I. Singularity preserving wavelet-Galerkin methods. (English summary) **98h:65064**
— *see also* **Hu, Ri-zhang; et al.**, **98h:65065**
Ramm, A. G. The scattering problem analyzed by means of an integral equation of the first kind. (English summary) **98a:35018**
Ruehr, Otto G. *see* **Bertram, Barbara S.**, (**98d:41001**)
Shi, Jun[1] (*with* Lin, Qun[1]) A high order method for non-smooth Fredholm equations. (English summary) **98a:45011**
Simanca, Santiago R. *see* **Asvestas, J. S.; et al.**
Skubachevskaya, Tat'yana *see* **Kozhevnikov, A. N.**, **98h:35183**
Tangerman, F. M. *see* **Asvestas, J. S.; et al.**
Xu, Yuesheng *see* **Micchelli, Charles A.**, **98h:65064** *and* **Hu, Ri-zhang; et al.**, **98h:65065**

45C05 Eigenvalue problems [see also 34Lxx, 35Pxx, 45P05, 47A75]

Items with secondary classifications in 45C05

Ismail, Mourad E. H. (*with* Rahman, Mizan; Zhang, Ruiming) Diagonalization of certain integral operators. II. (English summary) **98d:33011**
Rahman, Mizan *see* **Ismail, Mourad E. H.; et al.**, **98d:33011**
Zhang, Ruiming *see* **Ismail, Mourad E. H.; et al.**, **98d:33011**

45D05 Volterra integral equations [see also 34A12]

Balci, Mustafa *see* **Temizer, O. Faruk**
Begmatov, Akram Kh. Weakly ill-posed problems of integral geometry of Volterra type. (Russian) **98a:45003**
— Volterra problems of integral geometry in the plane for curves with singularities. (Russian. Russian summary) **98g:45001**
Gorenflo, Rudolf (*with* Luchko, Yurii F.; Srivastava, Hari M.) Operational method for solving integral equations with Gauss's hypergeometric function as a kernel. (English summary) **98m:45003**
Hu, Shi Geng Integral equations and inequalities on partially ordered topological spaces. (Chinese. Chinese summary) **98g:45002**
Krein, Selim Grigor'evich (*with* Sapronov, I. V.) On the completeness of a system of solutions of a Volterra integral equation with a singularity. (Russian) **98j:45003**
— (*with* Sapronov, I. V.) One class of solutions of Volterra equation with regular singularity. (English and Ukrainian summaries) **98i:45001**
Luchko, Yurii F. *see* **Gorenflo, Rudolf; et al.**, **98m:45003**
Šapkarev, Ilija A. Grades [powers] of the solutions of more simple as solutions of more complex Volterra linear integral equations. (English summary) (*see* **98b:00030**)
Sapronov, I. V. *see* **Krein, Selim Grigor'evich**, **98i:45001** *and* **98j:45003**
Srivastava, Hari M. *see* **Gorenflo, Rudolf; et al.**, **98m:45003**
Temizer, O. Faruk (*with* Balci, Mustafa) On the first type linear Volterra integral equations with convolution kernel. (English summary)

Items with secondary classifications in 45D05

Al-Saqabi, Bader N. *see* **Kiryakova, Virginia S.**, **98c:34102**
Balser, Werner An integral equation for normal solutions to meromorphic differential equations. (English summary) **98b:34010**
Brunner, Hermann (*with* Lin, Qun[1]; Yan, Ning Ning) The iterative correction method for Volterra integral equations. (English summary) **98b:45008**
— Open problems in the discretization of Volterra integral equations. (English summary) **98f:45010**
— 1896–1996: one hundred years of Volterra integral equations of the first kind. (English summary) **98g:01049**
— (*with* Makroglou, Athena; Miller, Richard Keith[1]) On mixed collocation methods for Volterra integral equations with periodic solution. (English summary) **98g:65125**
Bukchin, B. G. (*with* Digas, B. V.; Maksimov, Vyacheslav I.) On the problem of reconstructing the intensity of point sources from the results of sensor observations. (Russian. English and Russian summaries) **98j:35183**
Clément, Philippe (*with* Da Prato, Giuseppe) Some results on stochastic convolutions arising in Volterra equations perturbed by noise. (English and Italian summaries) **98e:60106**
Da Prato, Giuseppe *see* **Clément, Philippe**, **98e:60106**
Digas, B. V. *see* **Bukchin, B. G.; et al.**, **98j:35183**
Diogo, Teresa *see* **Lima, Pedro**, **98d:45011**
Drozdov, A. D. Explicit stability conditions for integro-differential equations with operator coefficients. (English summary) **98b:45009**
Edmunds, David E. (*with* Evans, William Desmond; Harris, Desmond J.) Two-sided estimates of the approximation numbers of certain Volterra integral operators. (English summary) **98d:47106**
Evans, William Desmond *see* **Edmunds, David E.; et al.**, **98d:47106**
Harris, Desmond J. *see* **Edmunds, David E.; et al.**, **98d:47106**
Hernández-Lerma, Onésimo (*with* Lasserre, Jean B.) Cone-constrained linear equations in Banach spaces. (English summary) **98i:90125**
Hsu, Leetsch Charles *see* **Sun, Guangrun**, **98a:60087**
Kato, Nobuyuki On a stability property of equilibrium of semilinear Volterra integral equations. (English summary) **98e:45014**
Kauthen, J.-P. A survey of singularly perturbed Volterra equations. (English summary) **98e:45003**
Kiryakova, Virginia S. (*with* Al-Saqabi, Bader N.) Transmutation method for solving Erdélyi-Kober fractional differintegral equations. (English summary) **98c:34102**
Lamm, Patricia K. Regularized inversion of finitely smoothing Volterra operators: predictor-corrector regularization methods. (English summary) **98b:65142**
Lasserre, Jean B. *see* **Hernández-Lerma, Onésimo**, **98i:90125**
Lima, Pedro (*with* Diogo, Teresa) An extrapolation method for a Volterra integral equation with weakly singular kernel. (English summary) **98d:45011**
Lin, Qun[1] *see* **Brunner, Hermann; et al.**, **98b:45008**
Makroglou, Athena *see* **Brunner, Hermann; et al.**, **98g:65125**
Maksimov, Vyacheslav I. *see* **Bukchin, B. G.; et al.**, **98j:35183**
Miller, Richard Keith[1] *see* **Brunner, Hermann; et al.**, **98g:65125**
Minowa, Kazuhisa *see* **Shirota, Kenji; et al.**, **98h:35193**
Onishi, Kazuei *see* **Shirota, Kenji; et al.**, **98h:35193**
Paone, A. (*with* Vecchio, A.) A nonlinear stability property of transformed Volterra Runge-Kutta methods. (English summary) **98h:65066**
Pieniążek, Alicja Contact problem for three curvilinear layers. **98c:35169**
Plato, Robert The Galerkin scheme for Lavrentiev's m-times iterated method to solve linear accretive Volterra integral equations of the first kind. (English summary) **98b:65145**
Shaw, Simon (*with* Warby, M. K.; Whiteman, John R.) Error estimates with sharp constants for a fading memory Volterra problem in linear solid viscoelasticity. (English summary) **98b:65116**
Shirota, Kenji (*with* Minowa, Kazuhisa; Onishi, Kazuei) Boundary integral equation for Navier-Stokes equations in a non-smooth domain. (English summary) **98h:35193**
Starikov, A. F. Reduction of linear one-dimensional differential and integro-differential equations to Volterra equations of the second kind. (Russian. Russian summary) **98k:45009**
Sun, Guangrun (*with* Hsu, Leetsch Charles) The use of nonstandard Möbius inversion to solve stochastic Volterra integral equations. (English and Chinese summaries) **98a:60087**
Väth, Martin A general theorem on continuity and compactness of the Uryson operator. (English summary) **98a:47073**
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Warby, M. K. *see* **Shaw, Simon; et al.**, **98b:65116**
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45Exx Singular integral equations [see also 30E20, 30E25, 44A15, 44A35]

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Kokilashvili, V. M. (*with* Paatashvili, V.) On the Riemann-Hilbert problem in the domain with a nonsmooth boundary. (English summary) **98c:35125**
Paatashvili, V. *see* **Kokilashvili, V. M.**, **98c:35125**

45E05 Integral equations with kernels of Cauchy type [see also 35J15]

Andriesh, G. S. (*with* Zolotarevskiĭ, V. A.) Approximation of functions in generalized Hölder spaces, and the approximate solution of singular integral equations. (Russian. Russian summary) **98i:45002**
Babaev, Arif Aligeidarovich (*with* Musaev, B. I.) Solution of a system of integro-functional equations for contact problems with nonlinear friction. (Russian. Russian summary) **98h:45003**
Banerjea, Sudeshna *see* **Chakrabarti, Aloknath; et al.**, **98e:45001**
Basu, U. *see* **Chakrabarti, Aloknath; et al.**, **98e:45001**
Chakrabarti, Aloknath (*with* Mandal, Birendra Nath; Basu, U.; Banerjea, Sudeshna) Solution of a hypersingular integral equation of the second kind. (English summary) **98e:45001**
— (*with* Mandal, Birendra Nath) Derivation of the solution of a simple hypersingular integral equation. (English summary) **98m:45004**
Dubatovskaya, M. V. (*with* Rogozin, S. V.) Homogeneous characteristic equation with an infinite index in the exceptional case. (Russian. English and Russian summaries) **98h:45004**
— A characteristic singular equation with a minus-infinity index in the exceptional case. (Russian. English and Russian summaries) **98k:45002**
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Gabdulkhaev, B. G. Methods for solving singular integral equations with positive operators. (Russian. Russian summary) **98m:45005**

Hansen, Olaf On the solution of a special kind of singular integral equation. (English summary) **98e:45002**

Li, J. (*with* Srivastav, R. P.) Computing the singular behavior of solutions of Cauchy singular integral equations with variable coefficients. (English summary)

Lifanov, I. K. ★ Метод сингулярных интегральных уравнений и численный эксперимент в математической физике, аэродинамике, теории упругости и дифракции волн. (Russian. Russian summary) [The method of singular integral equations and a numerical experiment in mathematical physics, aerodynamics and the theory of elasticity and wave diffraction] **98h:45005**

— (*with* Poltavskiĭ, L. N.) On the integral convergence of an approximate solution of the Prandtl equation to the exact solution. (Russian. Russian summary) **98m:45006**

Mandal, Birendra Nath *see* **Chakrabarti, Aloknath; et al., 98e:45001** *and* **98m:45004**

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Nguyen Minh Tuan On a class of singular integral equations with rotations. (English summary) **98c:45003**

Okada, Susumu (*with* Prössdorf, Siegfried) On the solution of the generalized airfoil equation. **98g:45003**

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Wang, Ping[4] (*with* Zheng, Kewang) Regularization of an Abel equation. (English summary) **98i:45004**

Zheng, Kewang *see* **Wang, Ping[4], 98i:45004**

Zheng, Shen Zhou *see* **Zheng, Xue Liang, 98k:45003**

Zheng, Xue Liang (*with* Zheng, Shen Zhou) Noether resolvability of systems of singular integral equations with conjugate terms. (Chinese. English and Chinese summaries) **98k:45003**

Zhong, Shou Guo More on solvability conditions of direct solution methods for systems of singular integral equations. (Chinese. Chinese summary) **98d:45002**

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Aleksandrov, Viktor Mikhaĭlovich (*with* Stupina, T. M.) On an integral equation that arises in periodic problems of mechanics with mixed boundary conditions. (Russian. Russian summary)

Amer, S. M. On the approximate solution of nonlinear singular integral equations with positive index. (English summary) **98c:45006**

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Azizov, M. On the complexity of boundary integral equations with harmonic coefficients near a logarithmic singularity. (Russian. English summary) **98a:65185**

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Boikova, A. Methods for the approximate calculation of the Hadamard integral and solution of integral equations with Hadamard integrals. (*see* **98i:00022**)

Bonnet, Marc (*with* Guiggiani, Massimo) Tangential derivative of singular boundary integrals with respect to the position of collocation points. (English summary) **98m:73087**

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— Boundary value problem with shift for two simply connected regions. (English summary)

Duduchava, R. (*with* Saginashvili, A.; Shargorodskiĭ, E. M.) On two-dimensional singular integral operators with conformal Carleman shift. (English summary) **98d:47105**

Farzan, R. H. Integral equation method for three-dimensional partial differential equations. (*see* **98e:00018**)

Fitt, A. D. When Tuck's double integral which should (?) vanish does. (English summary) **98e:26015**

Galperin, E. A. (*with* Kansa, E. J.; Makroglou, Athena; Nelson, S. A.) Mathematical programming methods in the numerical solution of Volterra integral and integro-differential equations with weakly-singular kernel. (English summary) (*see* **98i:00029**)

Galperin, Jana (*with* Krupnik, Naum) On the norms of singular integral operators along certain curves with intersections. (English summary) **98e:47072**

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— (*with* Santi, Elisabetta) On the numerical solution of Cauchy singular integral equations. II. A projector-splines method for solution. **98e:65113b**

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Kouzov, Daniil P. Boundary-contact problems of acoustics and methods of factorisation. (English summary) **98j:76129**

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Krutitskiĭ, Pavel A. A mixed problem for the Helmholtz equation outside cuts on the plane. (Russian. Russian summary) **98m:35030**

— The Neumann problem for the 2-D Helmholtz equation in a multiply connected domain with cuts. (English summary) **98i:35031**

Kutlu, Kadir On Riemann boundary value problem and characteristic singular integral equation. (English summary)

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Lifanov, I. K. ★ Singular integral equations and discrete vortices. (English summary) **98g:65130**

Lüneburg, Ernst Plane waveguides and the Riemann-Hilbert method: an alternative to the Wiener-Hopf technique. (English summary) **98i:78017**

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Makroglou, Athena *see* **Galperin, E. A.; et al., (98i:00029)**

Mannix, C. E., Jr. Potential function construction by use of an adaptive mesh algorithm for a class of singular integral equations. (English summary) **98b:65144**

Matveyeva, A. On the construction of an approximate solution for a hypersingular integral equation of the second kind. (*see* **98i:00022**)

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Micchelli, Charles A. (*with* Xu, Yuesheng) Weakly singular Fredholm integral equations. I. Singularity preserving wavelet-Galerkin methods. (English summary) **98h:65064**

— *see also* **Hu, Ri-zhang; et al., 98h:65065**

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Nyaga, V. I. Singular integral operators with generalized Carleman shift in the case of an unbounded contour. (Russian. English, Russian and Moldavian summaries) **98j:47116**

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Pedas, A. The mechanical quadrature method for solving weakly singular integral equations with discontinuous coefficients. (Russian. Russian summary) **98i:45017**

— The collocation method for weakly singular integral equations. (*see* **98i:00022**)

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Santi, Elisabetta *see* **Gori Nicolò-Amati, Laura, 98e:65113b**

Schneider, Claus B. Inversion formulas for the discretized Hilbert transform on the unit circle. (English summary) **98m:65222**

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Shulaya, D. A. On one Fredholm integral equation of third kind. (English summary) **98h:45002**

Smirnov, G. V. A periodic knitting problem for the Helmholtz equation. (English summary) **98j:35035**

Solov'ëv, A. A. On integral equations for the Dirichlet and Neumann boundary value problems in a plane domain with a cusp on the boundary. (Russian. Russian summary) **98e:35043**

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Tsetsokho, V. A. Conditionality of collocation approximations of a certain class of integral equations of the first kind. (Russian) **98b:65148**

Vatul'yan, A. O. (*with* Korobeĭnik, M. Yu.) On boundary integral equations in magneto-electroelasticity. (Russian) **98d:73056**

Wang, Xiao Lin Indirect approximate spline solutions to singular integral equations on a closed contour. (Chinese. English and Chinese summaries) **98g:45014**

Wu, Ting Wen *see* **Zhang, Ping[7], 98j:76132**

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Zharii, O. Yu. Singular integral equations of the theory of ultrasonic motors and their solutions. (*see* **98i:00021**)

Zheng, Ke Doubly periodic mixed problems in plane elasticity. (Chinese. English and Chinese summaries) **98d:73023**

Zisis, V. A. *see* **Ladopoulos, E. G., 98k:45005**

Zolotarevskiĭ, V. A. Direct methods for solving singular integral quations on closed smooth contour in spaces L_p.

45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [see also 47B35]

Abrahams, I. D. On explicit approximate non-commutative factorization of matrix Wiener-Hopf kernels. (*see* **98b:00024**)

Castro, L. P. Integral equations of convolution type on unions of intervals. (*see* **98i:00021**)

Dmitrieva, M. V. (*with* Tikhonenko, N. Ya.) Noether theory and the approximate solution of Wiener-Hopf integro-differential equations with difference and sum kernels. (Russian. Russian summary) **98j:45004**

Engibaryan, B. N. *see* **Engibaryan, N. B., 98a:45005**

Engibaryan, N. B. Convolution equations containing singular probability distributions. (Russian. Russian summary) **98a:45004**

— (*with* Engibaryan, B. N.) An integral convolution equation on the half-line with a completely monotone kernel. (Russian. Russian summary) **98a:45005**

Garg, Mridula (*with* Gupta, Mahesh Kumar) Double convolution integral equations involving a general class of multivariable polynomials and the multivariable H-functions. (English summary) **98d:45003**

Geĭdarov, B. A. On a convolution-type integral equation of the first kind. (Russian. Russian summary) (*see* **98e:00010**)

Gorenflo, Norbert (*with* Werner, Matthias) Solution of a finite convolution equation with a Hankel kernel by matrix factorization. (English summary) **98c:45004**

Gorenflo, Rudolf (*with* Luchko, Yurii F.) Operational method for solving generalized Abel integral equation of second kind. (English summary) **98f:45002**

Gryn′, V. I. Transformation of an Abel-type integral equation with nonsmooth data to an integral equation of the second kind. (Russian. Russian summary) **98a:45006**

— Correction to: "Transformation of an Abel-type integral equation with nonsmooth data to an integral equation of the second kind" [Zh. Vychisl. Mat. Mat. Fiz. **37** (1997), no. 1, 85–106; MR 98a:45006]. (Russian)

Gupta, Mahesh Kumar *see* **Garg, Mridula, 98d:45003**

Kas′yanov, V. I. Optimization of direct methods for solving singular integral equations in unbounded domains. (Russian) **98c:45005**

Luchko, Yurii F. *see* **Gorenflo, Rudolf, 98f:45002**

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Saigo, Megumi (*with* Saxena, Ram Kishore; Ram, Jeta) Application of generalized fractional calculus operators in the solution of certain dual integral equations. (English summary) **98b:45003**

Saxena, Ram Kishore *see* **Saigo, Megumi; et al., 98b:45003**

Shawagfeh, N. T. The solution of a singular integral equation with some applications in potential theory. (English summary) **98k:45004**

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Wang, Kan Min Oscillation for a class of nonlinear convolution integral equations. (Chinese. English and Chinese summaries) **98f:45003**

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Widom, Harold Wiener-Hopf integral equations. (English summary) **98b:45004**

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Alkumru, A. (*with* Polat, B.) Multiple diffraction of a line source field by a three-part thin transmissive slab. (English summary) **98m:76138**

Bart, H. (*with* Gohberg, Israel; Kaashoek, M. A.) Wiener-Hopf equations and linear systems. (English summary) **98a:47026**

Bolkov, I. V. Iterative methods of solution for integral equations with convolution. (*see* **98i:00021**)

Böttcher, Albrecht (*with* Karlovich, Yu. I.) Submultiplicative functions and spectral theory of Toeplitz operators. (English summary) **98m:47032**

— (*with* Karlovich, Yu. I.) ★ Carleson curves, Muckenhoupt weights, and Toeplitz operators. (English summary) **98m:47031**

Chan, Raymond H. *see* **Lin, Fu-Rong; et al., 98e:45013**

Chandler-Wilde, Simon N. (*with* Zhang, Bo[1]) On the solvability of a class of second kind integral equations on unbounded domains. (English summary) **98f:45001**

Đặng Đình Áng (*with* Pham Ngoc Dinh, A.; Dinh Ngoc Thanh) A bidimensional inverse Stefan problem: identification of boundary value. (English summary) **98g:35221**

Dinh Ngoc Thanh *see* **Đặng Đình Áng; et al., 98g:35221**

Ehrhardt, Torsten (*with* Roch, Steffen; Silbermann, Bernd) Symbol calculus for singular integrals with operator-valued PQC-coefficients. (English summary) **98d:47107**

El-Sayed, Wagdy Gomaa Nonlinear functional integral equations of convolution type. (English summary) **98m:45009**

Engibaryan, B. N. On multiple factorization of convolution-type integral operators. (Russian. Russian summary) **98d:47108**

Erdoğan, Eren *see* **Idemen, M., 98h:78013**

Farzan, R. H. Integral equation method for Maxwell equations. (English summary) **98d:78009**

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Idemen, M. (*with* Erdoğan, Eren) High-frequency surface currents induced on a spherical reflector by the edge-diffraction of obliquely incident waves. **98h:78013**

Kaashoek, M. A. *see* **Bart, H.; et al., 98a:47026**

Karlovich, A. Yu. Singular integral operators with piecewise-continuous coefficients in reflexive Orlicz spaces. (Russian) **98d:47109**

Karlovich, Yu. I. *see* **Böttcher, Albrecht, 98m:47031** *and* **98m:47032**

Lebre, A. B. (*with* Moura Santos, Ana; Speck, F.-O.) Factorization of a class of matrices generated by Sommerfeld diffraction problems with oblique derivatives. (English summary) **98k:35030**

Lewis, Patricia A. *see* **Wickham, G. R., (98b:00024)**

Lin, Fu-Rong (*with* Ng, Michael K.; Chan, Raymond H.) Preconditioners for Wiener-Hopf equations with high-order quadrature rules. (English summary) **98e:45013**

Lin, Qun[1] *see* **Shi, Jun[1], 98h:45015**

Mastroianni, Giuseppe (*with* Monegato, G.) Nyström interpolants based on zeros of Laguerre polynomials for some Wiener-Hopf equations. (English summary) **98j:45011**

Meister, Erhard Factorization problems in diffraction theory for canonical domains. (*see* **98b:00024**)

— Funktionentheorie und Funktionalanalysis. [Function theory and functional analysis] **98j:01033**

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Moura Santos, Ana *see* **Lebre, A. B.; et al., 98k:35030**

Ng, Michael K. *see* **Lin, Fu-Rong; et al., 98e:45013**

Nikolskiĭ, Mikhail S. Methods of factorization applicable to the solution of convolution equations. (English summary) **98g:46050**

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Pieniążek, Alicja Contact problem for three curvilinear layers. **98c:35169**

Polat, B. *see* **Alkumru, A., 98m:76138**

Roch, Steffen *see* **Ehrhardt, Torsten; et al., 98d:47107**

Rottbrand, K. Rawlins' problem for half-plane diffraction: its generalized eigenfunctions with real wave numbers. (English summary) **98g:35130**

Shankishvili, Lamara *see* **Yakubov, Askhab, 98a:44007**

Shi, Jun[1] (*with* Lin, Qun[1]) Superconvergent approximations for Wiener-Hopf equations. (English summary) **98h:45015**

Silbermann, Bernd *see* **Ehrhardt, Torsten; et al., 98d:47107**

Speck, F.-O. *see* **Lebre, A. B.; et al., 98k:35030**

Stojanović, Mirjana On the convolution equations over the quarter-plane. (English summary) **98g:46051**

Takano, Katsuo On integral and differential equations arising from probability distributions. **98e:60023**

Wickham, G. R. (*with* Lewis, Patricia A.) Mode conversion, corner singularities and matrix Wiener-Hopf factorization. (*see* **98b:00024**)

Yagle, Andrew E. Inverse scattering for time-varying one-dimensional layered media: algorithms and applications. (English summary) **98d:73031**

Yakubov, Askhab (*with* Shankishvili, Lamara) Some inequalities for convolution integral transforms. (English summary) **98a:44007**

Zhang, Bo[1] *see* **Chandler-Wilde, Simon N., 98f:45001**

45E99 None of the above, but in this section

Chakrabarti, Aloknath (*with* George, A. J.) Diagonalizable generalized Abel integral operators. (English summary) **98a:45007**

George, A. J. *see* **Chakrabarti, Aloknath, 98a:45007**

Items with secondary classifications in 45E99

Diogo, Teresa *see* **Lima, Pedro, 98d:45011**

Lima, Pedro (*with* Diogo, Teresa) An extrapolation method for a Volterra integral equation with weakly singular kernel. (English summary) **98d:45011**

45Fxx Systems of linear integral equations

45F05 Systems of nonsingular linear integral equations

Items with secondary classifications in 45F05

Mansky, E. J. An open problem in the numerical analysis of systems of Volterra integral equations of the second kind in two space-like variables. (English summary) (*see* **98b:65008**)

45F10 Dual, triple, etc., integral and series equations

Chakrabarti, Aloknath (*with* Mandal, Nanigopal) Solutions of some dual integral equations. **98m:45007**

Kumbhat, R. K. (*with* Sharma, Sunil) Solution of triple integral equations. (English summary) **98h:45006**

Mandal, Nanigopal *see* **Chakrabarti, Aloknath, 98m:45007**

Obolashvili, Elena Effective solutions of some dual integral equations and their applications. (English summary) **98g:45004**

Sharma, Sunil *see* **Kumbhat, R. K., 98h:45006**

Shilin, A. P. Explicit solution of a dual integral equation. (Russian. English and Russian summaries)

Virchenko, N. On some new types of multiple integral equations and their applications. (*see* **98i:00021**)

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Majorana, A. (*with* Marano, Salvatore A.) Space homogeneous solutions to the Cauchy problem for semiconductor Boltzmann equations. (English summary) **98b:45016**

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45Gxx Nonlinear integral equations [see also 47H15]

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Church, P. T. (*with* Timourian, J. G.) Global structure for nonlinear operators in differential and integral equations. I. Folds. **98e:58039**

— (*with* Timourian, J. G.) Global structure for nonlinear operators in differential and integral equations. II. Cusps. **98e:58040**

Guo, Dajun (*with* Lakshmikantham, V.; Liu, Xinzhi) ★ Nonlinear integral equations in abstract spaces. (English summary) **98a:45001**

Lakshmikantham, V. *see* **Guo, Dajun; et al., 98a:45001**

Liu, Xinzhi *see* **Guo, Dajun; et al., 98a:45001**

Timourian, J. G. *see* **Church, P. T., 98e:58039** *and* **98e:58040**

45G05 Singular nonlinear integral equations

Amer, S. M. On the approximate solution of nonlinear singular integral equations with positive index. (English summary) **98c:45006**

Kauthen, J.-P. A survey of singularly perturbed Volterra equations. (English summary) **98e:45003**

Ladopoulos, E. G. (*with* Zisis, V. A.) Existence and uniqueness for non-linear singular integral equations used in fluid mechanics. (English summary) **98k:45005**

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— (*with* Whiteman, John R.) Applications and numerical analysis of partial differential Volterra equations: a brief survey. (English summary) **98i:65123**

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Strauss, Raimond Numerische Integration von hypersingulären Integralen ganzzahliger Ordnung. (English and German summaries) [Numerical integration of hypersingular integrals of integral order] **98m:65227**

Tamme, Enn Two-grid method for the solution of weakly singular integral equations by piecewise polynomial approximation. (English and Estonian summaries)

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45L10 Numerical approximation of solutions {For numerical analysis, see 65R20.}

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Farzan, R. H. Integral equation method for three-dimensional partial differential equations. (*see* **98c:00018**)

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45Mxx Qualitative behavior

45M05 Asymptotics

Cahlon, Baruch (*with* Schmidt, Darrell) Stability criteria for certain delay integral equations of Volterra type. (English summary) **98g:45015**
Kato, Nobuyuki On a stability property of equilibrium of semilinear Volterra integral equations. (English summary) **98e:45014**
Schmidt, Darrell *see* **Cahlon, Baruch**, **98g:45015**

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Olmstead, W. E. Critical speed for the avoidance of blow-up in a reactive-diffusive medium. (English summary) **98j:35095**
Roberts, Catherine A. Characterizing the blow-up solutions for nonlinear Volterra integral equations. **98k:45006**
Wang, Kan Min Oscillation for a class of nonlinear convolution integral equations. (Chinese. English and Chinese summaries) **98f:45003**

45M10 Stability theory

Drozdov, A. D. Explicit stability conditions for integro-differential equations with operator coefficients. (English summary) **98b:45009**

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Churilov, A. N. *see* **Gelig, A. Kh.**, **98f:34049**
Cui, Jingan Global stability in Gilpin-Ayala competitive model with time delays. (English summary) **98j:34149**
Deng, Shu Chao *see* **Xu, Dao Yi**, **98d:34108**
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Yu, Yuan Hong *see* **Zhang, Zhen Guo**, **98a:45010**
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45M15 Periodic solutions

Gao, Zhanhai (*with* Li, Sichun) Existence of multiple periodic solutions to a nonlinear integral equation from the theory of epidemics. (English summary) **98c:45019c**
Kirr, Eduard Existence of periodic solutions for some integral equations arising in infectious diseases. (Romanian summary) **98c:45019b**
Li, Sichun *see* **Gao, Zhanhai**, **98c:45019c**
Precup, Radu Periodic solutions for an integral equation from biomathematics via Leray-Schauder principle. (English and Romanian summaries) **98c:45019a**
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Ait Dads, E. (*with* Ezzinbi, K.; Arino, O.) Existence of periodic solution for some neutral nonlinear integral equation with delay time dependent. (English summary) **98h:45007**
Arino, O. *see* **Ait Dads, E.; et al.**, **98h:45007**
Ezzinbi, K. *see* **Ait Dads, E.; et al.**, **98h:45007**
Yoshizawa, Taro Periodic and almost periodic solutions in an integrodifferential equation. **98i:45014**

45M99 None of the above, but in this section

Furumochi, Tetsuo Almost periodic solutions of integral equations. **98k:45011**
Islam, Muhammad Nurul[1] Almost periodic solutions of nonlinear integral equations. (*see* **98i:00028**)

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Fatori, Luci Harue *see* **Muñoz Rivera, Jaime E.**, **98d:73038**
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45N05 Abstract integral equations, integral equations in abstract spaces

Deebes, Eman Ibrahim *see* **El-Sayed, Wagdy Gomaa**, **98a:45013**
El-Sayed, Wagdy Gomaa (*with* Deebes, Eman Ibrahim) Monotone solutions of a functional integral equation. (English summary) **98a:45013**
He, Min[1] Integrodifferential equations dependent on parameters. (English summary) **98a:45014**
Hou, Ren En Existence and uniqueness of solutions to a class of integral equations on the space F^*. (Chinese. English and Chinese summaries) **98c:45020**
Oka, Hirokazu (*with* Tanaka, Naoki) Abstract quasilinear integrodifferential equations of hyperbolic type. **98g:45016**
Tanaka, Naoki *see* **Oka, Hirokazu**, **98g:45016**
Wei, Shu Zhi *see* **Yang, Gen Ke**, **98a:45015**
Yan, Baoqiang On L^p_{loc}-solutions of nonlinear impulsive Volterra integral equations in Banach spaces. (English summary) **98k:45012**
Yang, Gen Ke (*with* Wei, Shu Zhi) Theorems on positive solutions to a class of functional integral equations and their applications. (Chinese) **98a:45015**

Items with secondary classifications in 45N05

Aizicovici, Sergiu (*with* Gao, Yun[3]) Functional-differential equations with nonlocal initial conditions. (English summary) **98f:34117**
Gacki, Henryk On the existence and asymptotic behavior of the random solutions of the random integral equation with advancing argument. (English summary) **98c:60072**
Gao, Yun[3] *see* **Aizicovici, Sergiu**, **98f:34117**
Guo, Dajun (*with* Lakshmikantham, V.; Liu, Xinzhi) ★ Nonlinear integral equations in abstract spaces. (English summary) **98a:45001**
— Existence and uniqueness of solutions of impulsive integro-differential equations in Banach spaces. **98k:34128**
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Hu, Shi Geng Integral equations and inequalities on partially ordered topological spaces. (Chinese. Chinese summary) **98g:45002**
Kato, Nobuyuki On a stability property of equilibrium of semilinear Volterra integral equations. (English summary) **98e:45014**
Lakshmikantham, V. *see* **Guo, Dajun; et al.**, **98a:45001**
Liu, Xinzhi (*with* Guo, Dajun) Periodic boundary value problems for a class of second-order impulsive integro-differential equations in Banach spaces. (English summary) **98h:45009**
— *see also* **Guo, Dajun; et al.**, **98a:45001**
Lorenzi, Alfredo (*with* Prilepko, A. I.) Global existence results for first-order integrodifferential identification problems. (English summary) **98f:45005**
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Wei, Zhong Li Periodic boundary value problems for nonlinear impulsive integrodifferential equations of mixed type in Banach spaces. (English summary) **98a:34093**
Zhou, You Ming Existence of solutions to a class of nonlinear integrodifferential equations in Banach spaces. (Chinese. English and Chinese summaries) **98c:45013**

45P05 Integral operators [see also 47B38, 47G10]

Items with secondary classifications in 45P05

Ahues, M. (*with* Piskarev, S.) Spectral approximation of weakly singular integral operators. I. Convergence theory. (*see* **98i:00022**)
Al-Saqabi, Bader N. *see* **Kiryakova, Virginia S.**, **98c:34102**
Appell, Jürgen (*with* Frolova, Elena Valer'evna; Kalitvin, A. S.; Zabrejko, Petr Petrovich) Partial integral operators on $C([a,b]\times[c,d])$. (English summary) **98f:47037**
Banaś, Józef Some properties of Urysohn-Stieltjes integral operators. (English summary) **98j:47156**
Cao, Wei Ping (*with* Ma, Ji Pu) The pointwise continuity of the M-P generalized inverses $A^{\dagger}_{s}$. (Chinese. English and Chinese summaries) **98i:47001**
Chakrabarti, Aloknath (*with* George, A. J.) Diagonalizable generalized Abel integral operators. (English summary) **98a:45007**
Chandler-Wilde, Simon N. (*with* Zhang, Bo[1]) On the solvability and numerical treatment of a class of second kind integral equations on unbounded domains. (*see* **98i:00022**)
— (*with* Zhang, Bo[1]) On the solvability of a class of second kind integral equations on unbounded domains. (English summary) **98f:45001**
— The impedance boundary value problem for the Helmholtz equation in a half-plane. (English summary) **98h:35040**
Dostanić, Milutin R. Asymptotic behavior of eigenvalues of certain integral operators. (English summary) **98d:47104**
Dronka, Janusz On Fredholm-Stieltjes and Hammerstein-Stieltjes integral operators over an infinite interval. (English summary) **98j:47110**

Dubatovskaya, M. V. A characteristic singular equation with a minus-infinity index in the exceptional case. (Russian. English and Russian summaries) **98k:45002**

Duduchava, R. (*with* Saginashvili, A.; Shargorodskiĭ, E. M.) On two-dimensional singular integral operators with conformal Carleman shift. (English summary) **98d:47105**

Edmunds, David E. (*with* Evans, William Desmond; Harris, Desmond J.) Two-sided estimates of the approximation numbers of certain Volterra integral operators. (English summary) **98d:47106**

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Eveson, S. P. Eigenvalues of totally positive integral operators. (English summary) **98e:47071**

Farzan, R. H. Integral equation method for three-dimensional partial differential equations. (*see* **98e:00018**)

Frolova, Elena Valer'evna *see* **Appell, Jürgen; et al., 98f:47037**

George, A. J. *see* **Chakrabarti, Aloknath, 98a:45007**

Grubb, D. J. (*with* Moore, Charles N.) A variant of Hörmander's condition for singular integrals. **98h:42015**

Harris, Desmond J. *see* **Edmunds, David E.; et al., 98d:47106**

Hu, Chuan-Gan The stability of integral equations with the Cauchy kernel. (English summary) **98g:47041**

Jandhyala, V. K. (*with* Jiang, Peilei) Eigenvalues of a Fredholm integral operator and applications to problems of statistical inference. (English summary) **98b:45001**

Jiang, Peilei *see* **Jandhyala, V. K., 98b:45001**

Kalitvin, A. S. Nonlinear operators with partial integrals. (*see* **98i:00027**)

— *see also* **Appell, Jürgen; et al., 98f:47037**

Kiryakova, Virginia S. (*with* Al-Saqabi, Bader N.) Transmutation method for solving Erdélyi-Kober fractional differintegral equations. (English summary) **98c:34102**

Korotkov, V. B. Some unsolved problems of the theory of integral operators. (English summary) **98j:47114**

Krantz, Steven G. (*with* Li, Song-Ying; Rochberg, Richard) Analysis of some function spaces associated to Hankel operators. **98f:46019**

Laitinen, M. T. Radiation heat transfer in absorbing, emitting and scattering media. (*see* **98i:00021**)

Lao, Norman (*with* Whitley, Robert) Norms of powers of the Volterra operator. (English summary) **98b:47014**

Li, Song-Ying *see* **Krantz, Steven G.; et al., 98f:46019**

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Medina, Rigoberto Solvability of discrete Volterra equations in weighted spaces. (English summary) **98a:39019**

Moore, Charles N. *see* **Grubb, D. J., 98h:42015**

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Piskarev, S. *see* **Ahues, M., (98i:00022)**

Rochberg, Richard *see* **Krantz, Steven G.; et al., 98f:46019**

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Saranen, J. (*with* Vainikko, Gennadi) Fast solvers of integral equations on closed curves. (*see* **98i:00022**)

Shargorodskiĭ, E. M. *see* **Duduchava, R.; et al., 98d:47105**

Sheveleva, V. N. Boundary integral operators for parabolic equations with discontinuous coefficients. (*see* **98i:00036**)

Stepanov, V. D. On the structure of certain class of Volterra integral operators and estimates of approximation numbers. (*see* **98h:47004**)

Tiihonen, Timo A non-local problem arising from heat radiation on non-convex surfaces. (*see* **98i:00021**)

Vainikko, Gennadi *see* **Saranen, J., (98i:00022)**

Väth, Martin A general theorem on continuity and compactness of the Uryson operator. (English summary) **98a:47073**

Whitley, Robert *see* **Lao, Norman, 98b:47014**

Zabreĭko, Petr Petrovich The L_2-theory of linear Fredholm integral equations of the second kind. (Russian. Russian summary) **98a:45002**

— *see also* **Appell, Jürgen; et al., 98f:47037**

Zhang, Bo[1] *see* **Chandler-Wilde, Simon N., 98f:45001** *and* **(98i:00022)**

46–XX Functional analysis {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx.}

46–01 Instructional exposition (textbooks, tutorial papers, etc.)

Demidenko, G. V. ★ Введение в теорию соболевских пространств. (Russian. Russian summary) [Introduction to the theory of Sobolev spaces] **98b:46001**
Hirsch, Francis (*with* Lacombe, Gilles) ★ Éléments d'analyse fonctionnelle. (French. French summary) [Elements of functional analysis] **98c:46001**
Kadison, Richard V. (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. I. **98f:46001a**
— (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. II. **98f:46001b**
Kanwal, Ram P. ★ Generalized functions. (English summary) **98i:46001**
Kutateladze, Semën Samsonovich ★ Основы функционального анализа. (Russian. Russian summary) [Foundations of functional analysis] **98a:46001**
Lacombe, Gilles *see* **Hirsch, Francis**, **98c:46001**
Meise, Reinhold (*with* Vogt, Dietmar) ★ Introduction to functional analysis. (English summary) **98g:46001**
(Ramanujan, M. S.) *see* **Meise, Reinhold**, **98g:46001**
Ringrose, John R. *see* **Kadison, Richard V.**, **98f:46001a** *and* **98f:46001b**
Shilov, G. E. ★ Elementary functional analysis. (English summary) **98a:46002**
(Silverman, Richard A.) *see* **Shilov, G. E.**, **98a:46002**
Vogt, Dietmar *see* **Meise, Reinhold**, **98g:46001**

Items with secondary classifications in 46–01

Bridges, Douglas S. ★ Foundations of real and abstract analysis. (English summary) **98m:00001**
Ferreira, J. Campos ★ Introduction to the theory of distributions. (English summary) **98h:46036**
Filter, Wolfgang (*with* Weber, Karl) ★ Integration theory. (English summary) **98i:28001**
Folland, Gerald B. ★ A course in abstract harmonic analysis. **98c:43001**
(Hoskins, Roy Frank) *see* **Ferreira, J. Campos**, **98h:46036**
Jones, V. (*with* Sunder, V. S.) ★ Introduction to subfactors. (English summary) **98b:46067**
Lang, Serge ★ Undergraduate analysis. (English summary) **98h:00002**
Lieb, Elliott H. (*with* Loss, Michael) ★ Analysis. (English summary) **98b:00004**
Loss, Michael *see* **Lieb, Elliott H.**, **98b:00004**
Nielsen, Ole A. ★ An introduction to integration and measure theory. **98j:28002**
Pap, Endre (*with* Takači, Arpad; Takači, Djurdjica) ★ Partial differential equations through examples and exercises. (English summary) **98m:35002**
Saichev, A. I. (*with* Woyczyński, Wojbor A.) ★ Distributions in the physical and engineering sciences. Vol. 1. (English summary) **98b:00008**
Schechter, Eric ★ Handbook of analysis and its foundations. **98b:00009**
(Sousa-Pinto, José) *see* **Ferreira, J. Campos**, **98h:46036**
Sunder, V. S. *see* **Jones, V.**, **98b:46067**
Takači, Arpad *see* **Pap, Endre; et al.**, **98m:35002**
Takači, Djurdjica *see* **Pap, Endre; et al.**, **98m:35002**
Weber, Karl *see* **Filter, Wolfgang**, **98i:28001**
Woyczyński, Wojbor A. *see* **Saichev, A. I.**, **98b:00008**

46–02 Research exposition (monographs, survey articles)

Swartz, Charles ★ Infinite matrices and the gliding hump. (English summary) **98b:46002**

Items with secondary classifications in 46–02

Faraut, Jacques (*with* Korányi, Adam) ★ Analysis on symmetric cones. **98g:17031**
Kadison, Richard V. (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. I. **98f:46001a**
— (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. II. **98f:46001b**
Korányi, Adam *see* **Faraut, Jacques**, **98g:17031**
Kriegl, Andreas (*with* Michor, Peter W.) ★ The convenient setting of global analysis. (English summary) **98i:58015**
Michor, Peter W. *see* **Kriegl, Andreas**, **98i:58015**
Nazaikinskii, Vladimir E. (*with* Shatalov, V. E.; Sternin, Boris Yu.) ★ Methods of noncommutative analysis. **98k:58205**
Ringrose, John R. *see* **Kadison, Richard V.**, **98f:46001a** *and* **98f:46001b**
Shatalov, V. E. *see* **Nazaikinskii, Vladimir E.; et al.**, **98k:58205**
Sternin, Boris Yu. *see* **Nazaikinskii, Vladimir E.; et al.**, **98k:58205**
Väth, Martin ★ Ideal spaces. **98m:46054**

46–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 46–03

Araki, Huzihiro Rings of operators and mathematical physics. (Japanese)
(Beauzamy, Bernard) *see* **Fetter, Helga**, **98k:46013**
Beckenstein, Edward *see* **Narici, Lawrence**, **98c:01033**
Bombal, Fernando The origins of functional analysis. (Spanish) **98m:01013**
Dorier, Jean-Luc Genèse des premiers espaces vectoriels de fonctions. (English and French summaries) [The inception of the first vector spaces of functions] **98c:01023**
Fetter, Helga (*with* Gamboa de Buen, Berta) ★ The James forest. (English summary) **98k:46013**
Gamboa de Buen, Berta *see* **Fetter, Helga**, **98k:46013**
(James, Robert C.) *see* **Fetter, Helga**, **98k:46013**
Meister, Erhard Funktionentheorie und Funktionalanalysis. [Function theory and functional analysis] **98j:01033**
Narici, Lawrence (*with* Beckenstein, Edward) The Hahn-Banach theorem: the life and times. (English summary) **98c:01033**
(von Neumann, John) *see* **Rédei, Miklós**, **98f:01049**
Rätz, Jürg On Wigner's theorem: remarks, complements, comments, and corollaries. (English summary) **98b:39022**
Rédei, Miklós Why John von Neumann did not like the Hilbert space formalism of quantum mechanics (and what he liked instead). **98f:01049**
Smithies, Frank The shaping of functional analysis. **98c:01037**

46–06 Proceedings, conferences, collections, etc.

(Cabello Sánchez, F.) *see* **Congress: Examples and Counterexamples in Banach Spaces**, **98k:46001**
(Castillo, Jesús M. F.) *see* **Congress: Examples and Counterexamples in Banach Spaces**, **98k:46001**
(García, Ricardo) *see* **Congress: Examples and Counterexamples in Banach Spaces**, **98k:46001**
(Hudzik, Henryk) *see* **Conference: Function Spaces**, **98h:46001**
(Kąkol, Jerzy) *see* ***p*-adic functional analysis**, **98b:46006**
(Katavolos, Aristides) *see* **Operator algebras and applications**, **98b:46004**
Maurey, Bernard (*with* Pisier, Gilles) ★ Espaces de Banach classiques et quantiques. (French) [Classical and quantum Banach spaces] **98b:46003**
(Musielak, Julian) *see* **Conference: Function Spaces**, **98h:46001**
(Nowak, Marian) *see* **Conference: Function Spaces**, **98h:46001**
(Pérez-García, Cristina) *see* ***p*-adic functional analysis**, **98b:46006**
Pisier, Gilles *see* **Maurey, Bernard**, **98b:46003**
(Schikhof, W. H.) *see* ***p*-adic functional analysis**, **98b:46006**

Items listed otherwise than by author

Badajoz ★ II Congress on Examples and Counterexamples in Banach Spaces. **98k:46001**
Conference:
  Function Spaces ★ {Fourth International Conference on Function Spaces}. **98h:46001**
  Operator Algebras and Applications ★ Operator algebras and applications. **98b:46004**
  ***p*-adic Functional Analysis** ★ *p*-adic functional analysis. **98b:46006**
Congress:
  Examples and Counterexamples in Banach Spaces ★ II Congress on Examples and Counterexamples in Banach Spaces. **98k:46001**
NATO Advanced Study Institute:
  Operator Algebras and Applications ★ Operator algebras and applications. **98b:46004**
Nijmegen ★ *p*-adic functional analysis. **98b:46006**
Operator algebras and applications ★ Operator algebras and applications. **98b:46004**
***p*-adic functional analysis** ★ *p*-adic functional analysis. **98b:46006**
Recent developments in the theory of operator algebras ★ Sayōso kan ron ni okeru saikin no hatten. (Japanese) [Recent developments in the theory of operator algebras] **98f:46002**
Samos ★ Operator algebras and applications. **98b:46004**
Symposium:
  Recent Developments in the Theory of Operator Algebras ★ Sayōso kan ron ni okeru saikin no hatten. (Japanese) [Recent developments in the theory of operator algebras] **98f:46002**
  Theory of Paragroups and its Applications ★ Paragurūpu no riron to sono ōyō. [Theory of paragroups and its applications] **98b:46005**
Theory of paragroups and its applications ★ Paragurūpu no riron to sono ōyō. [Theory of paragroups and its applications] **98b:46005**
Zielona Góra ★ {Fourth International Conference on Function Spaces}. **98h:46001**

Items with secondary classifications in 46–06

(Cowen, Carl C.) *see* **Studies on composition operators**, **98h:47005**
(Cuntz, Joachim J. R.) *see* **Cyclic cohomology and noncommutative geometry**, **98e:00017**
(Doplicher, Sergio) *see* **Operator algebras and quantum field theory**, **98h:00032**
(Jafari, Farhad) *see* **Studies on composition operators**, **98h:47005**
(Kastler, Daniel) *see* **Operator algebras and quantum field theory**, **98h:00032**
(Khalkhali, Masoud) *see* **Cyclic cohomology and noncommutative geometry**, **98e:00017**
(Longo, Roberto) *see* **Operator algebras and quantum field theory**, **98h:00032**
(MacCluer, Barbara D.) *see* **Studies on composition operators**, **98h:47005**
(Porter, A. Duane) *see* **Studies on composition operators**, **98h:47005**
(Rákosník, Jiří) *see* **Function spaces, differential operators and nonlinear analysis**, **98e:00019**
(Roberts, John E.) *see* **Operator algebras and quantum field theory**, **98h:00032**
(Tsagas, Grigorios T.) *see* **New frontiers in algebras, groups and geometries**, **98d:00020**
(Zsidó, László) *see* **Operator algebras and quantum field theory**, **98h:00032**

Items listed otherwise than by author

Conference:
  Function Spaces, Differential Operators and Nonlinear Analysis ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
  Operator Algebras and Quantum Field Theory ★ Operator algebras and quantum field theory. **98h:00032**
  Rocky Mountain Mathematics Consortium ★ Studies on composition operators. **98h:47005**
Contemporary Mathematics ★ Studies on composition operators. **98h:47005**
Cyclic cohomology and noncommutative geometry ★ Cyclic cohomology and noncommutative geometry. **98e:00017**
Festschrift:
  Kastler, Daniel ★ Operator algebras and quantum field theory. **98h:00032**
Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
Laramie, WY ★ Studies on composition operators. **98h:47005**
Monteroduni ★ New frontiers in algebras, groups and geometries. **98d:00020**

New frontiers in algebras, groups and geometries ★ New frontiers in algebras, groups and geometries. **98d:00020**
Operator algebras and quantum field theory ★ Operator algebras and quantum field theory. **98h:00032**
Paseky nad Jizerou ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
Quantum stochastic analysis and related fields ★ Ryōshi kakuritsu kaiseki to sono shūhen. [Quantum stochastic analysis and related fields] **98b:00034**
Recent topics in operator theory concerning the structure of operators ★ Sayōso no kōzō ni kan suru sayōso ron no saikin no wadai. (Japanese) [Recent topics in operator theory concerning the structure of operators] **98h:47004**
Rome ★ Operator algebras and quantum field theory. **98h:00032**
Studies on composition operators ★ Studies on composition operators. **98h:47005**
Symposium:
Quantum Stochastic Analysis and Related Fields ★ Ryōshi kakuritsu kaiseki to sono shūhen. [Quantum stochastic analysis and related fields] **98b:00034**
Recent Topics in Operator Theory Concerning the Structure of Operators ★ Sayōso no kōzō ni kan suru sayōso ron no saikin no wadai. (Japanese) [Recent topics in operator theory concerning the structure of operators] **98h:47004**
Waterloo, ON ★ Cyclic cohomology and noncommutative geometry. **98e:00017**
Workshop:
Cyclic Cohomology and Noncommutative Geometry ★ Cyclic cohomology and noncommutative geometry. **98e:00017**
New Frontiers in Algebras, Groups and Geometries ★ New frontiers in algebras, groups and geometries. **98d:00020**

46Axx Topological linear spaces and related structures {For function spaces, see 46Exx.}

Items with secondary classifications in 46Axx

Díaz Alcaide, Juan Carlos On non-primary Fréchet Schwartz spaces. (English summary) **98j:46001**
Florencio, Miguel (*with* Mayoral, Fernando; Paúl, Pedro J.) Dieudonné-Köthe duality for vector-valued function spaces: localization of bounded sets and barrelledness. (English summary) **98i:46033**
Grothendieck, Alexander Résumé de la théorie métrique des produits tensoriels topologiques. [Summary of the metric theory of topological tensor products] **98e:46091**
Mayoral, Fernando *see* **Florencio, Miguel; et al., 98i:46033**
Paúl, Pedro J. *see* **Florencio, Miguel; et al., 98i:46033**

46A03 General theory of locally convex spaces

Cheng, Lixin *see* **Wu, Cong Xin; et al., 98a:46004**
Kadelburg, Zoran (*with* Radenović, Stojan) Three-space-problem for some classes of linear topological spaces. (English summary) **98a:46003**
— *see also* **Radenović, Stojan, (98k:00020)**
Kumari, Anjali *see* **Singh, Lal Babu**
Lee, E. S. *see* **Wu, Cong Xin; et al., 98a:46004**
Narang, T. D. (*with* Singh, Sankatha Prasad) Best coapproximation in locally convex spaces. **98e:46001**
Prasad, S. K. Convexity and quasi-Banach space. (English summary)
Qiu, Jing Hui A generalization of the Lax theorem in locally convex spaces. (Chinese. Chinese summary) **98h:46002**
Radenović, Stojan (*with* Kadelburg, Zoran) Weak topology in locally convex spaces with a fundamental sequence of bounded subsets. (English summary) (*see* **98k:00020**)
— *see also* **Kadelburg, Zoran, 98a:46003**
Remus, Dieter (*with* Trigos-Arrieta, F. Javier) Locally convex spaces as subgroups of products of locally compact abelian groups. (English summary) **98f:46003**
Singh, Lal Babu (*with* Kumari, Anjali) Particular type of set in a linear space. (English summary)
Singh, Sankatha Prasad *see* **Narang, T. D., 98e:46001**
Suyalatu (*with* Te, Gu Si) Uniform smoothness, uniform convexity and proximinal problems in locally convex spaces. (Chinese. English and Chinese summaries) **98b:46007**
Te, Gu Si *see* **Suyalatu, 98b:46007**
Trigos-Arrieta, F. Javier *see* **Remus, Dieter, 98f:46003**
Wang, Xiaomin *see* **Wu, Cong Xin; et al., 98a:46004**
Wu, Cong Xin (*with* Wang, Xiaomin; Cheng, Lixin; Lee, E. S.) On the Asplund property of locally convex spaces. (English summary) **98a:46004**

Items with secondary classifications in 46A03

Aguayo, José (*with* De Grande-De Kimpe, Nicole; Navarro, Samuel) Strict locally convex topologies on $BC(X, \mathbb{K})$. **98i:46076**
Aslam, Muhammad[2] *see* **Khan, Abdul Rahim; et al., 98h:41041**
Becker, Richard Edouard A new tool in the theory of integral representation. **98i:46005**
Bu, Qing Ying (*with* Fu, Yong Qiang) Orlicz-Pettis type theorem for compact operators. (English summary) **98g:46005**
Chen, Gui Jun (*with* Wang, De Jun) A topological structure in linear topological spaces. (Chinese. English and Chinese summaries) **98a:46009**
De Grande-De Kimpe, Nicole *see* **Aguayo, José; et al., 98i:46076**
Fu, Yong Qiang *see* **Bu, Qing Ying, 98g:46005**
Hussain, Nawab *see* **Khan, Abdul Rahim; et al., 98h:41041**
Khan, Abdul Rahim (*with* Aslam, Muhammad[2]; Hussain, Nawab) Some best approximation results in locally convex spaces. (English summary) **98h:41041**
Navarro, Samuel *see* **Aguayo, José; et al., 98i:46076**
Roth, Walter Real and complex linear extensions for locally convex cones. (English summary) **98k:46010**
Samanta, Hora Krishna Some results in locally convex linear topological spaces and its applications to a class of optimization problems. (English summary) **98g:46109**
Sánchez Ruiz, L. M. *see* **Saxon, Stephen A., 98d:46002**
Saxon, Stephen A. (*with* Sánchez Ruiz, L. M.) Barrelled countable enlargements and the dominating cardinal. (English summary) **98d:46002**
Wang, De Jun *see* **Chen, Gui Jun, 98a:46009**
Xu, Tian Zhou Modules over operator algebras and its module maps. (English summary) **98h:46050**

46A04 Locally convex Fréchet spaces and (DF)-spaces

Albanese, Angela A. The density condition in quotients of quasinormable Fréchet spaces. (English summary) **98d:46001**
Arslan, Bora (*with* Kocatepe, Mefharet) An application of linear topological invariants. (English and Turkish summaries) **98k:46002**
Díaz Alcaide, Juan Carlos On non-primary Fréchet Schwartz spaces. (English summary) **98j:46001**
Domański, Paweł (*with* Krone, Jörg; Vogt, Dietmar) Standard exact projective resolutions relative to a countable class of Fréchet spaces. (English summary) **98a:46005**
Kocatepe, Mefharet *see* **Arslan, Bora, 98k:46002**
Krone, Jörg *see* **Domański, Paweł; et al., 98a:46005**
López Molina, J. A. (*with* Rivera Ortún, María José) Bounded, Montel and compact operators on spaces of Moscatelli type. (English summary) **98c:46002**
Rivera Ortún, María José *see* **López Molina, J. A., 98c:46002**
Vogt, Dietmar Tame splitting pairs of type 0 and 1. **98a:46006**
— *see also* **Domański, Paweł; et al., 98a:46005**

Items with secondary classifications in 46A04

Ansari, Shamim I. Existence of hypercyclic operators on topological vector spaces. (English summary) **98h:47028a**
Bonet, José Intersections of Fréchet Schwartz spaces and their duals. (English summary) **98a:46007**
Dierolf, Susanne (*with* Domański, Paweł) Null sequences in coechelon spaces. (English summary) **98a:46013**
Domański, Paweł *see* **Dierolf, Susanne, 98a:46013**
Frerick, L. On vector-valued sequence spaces. (English summary) **98b:46014**
Kadelburg, Zoran (*with* Radenović, Stojan) Three-space-problem for some classes of linear topological spaces. (English summary) **98a:46003**
Nguyen Minh Ha (*with* Thai Thuan Quang) Property $\tilde{\Omega}$ and holomorphic functions with values in a pseudoconvex space having Stein morphism into a complex Lie group. (English and Italian summaries) **98e:46055**
Peris, Alfredo The factorization problem for operators mapping Fréchet spaces into (DF)-spaces. (English summary) **98c:47057**
Radenović, Stojan *see* **Kadelburg, Zoran, 98a:46003**
Thai Thuan Quang *see* **Nguyen Minh Ha, 98e:46055**
Zhang, Hai Tao Existence of a non-strict morphism of quotient Banach spaces. (English summary) **98a:46028**

46A08 Barrelled spaces, bornological spaces

Drewnowski, Lech Barrelled spaces with Boolean rings of projections. (English summary) **98m:46001**
Ferrer Villanueva, José R. (*with* Sánchez Ruiz, L. M.) Barrelledness of class $\aleph_0$ of the space $l_0^\infty(X, \mathscr{A})$ and measure theory. **98c:46003**
Roth, Walter A uniform boundedness theorem for locally convex cones. (English summary) **98j:46002**
Sánchez Ruiz, L. M. *see* **Ferrer Villanueva, José R., 98c:46003** *and* **Saxon, Stephen A., 98d:46002**
Saxon, Stephen A. (*with* Sánchez Ruiz, L. M.) Barrelled countable enlargements and the dominating cardinal. (English summary) **98d:46002**

Items with secondary classifications in 46A08

Bernard, Alain (*with* Sidney, Stuart J.) Some ultrabornological normed function spaces. (English summary) **98j:46020**
Blasco, Fernando Polynomials on Köthe echelon spaces. (English summary) **98h:46046**
Frerick, L. On vector-valued sequence spaces. (English summary) **98b:46014**
Kąkol, Jerzy A strong barrelledness property for spaces $C(X, E)$. (English summary) **98e:46041**
— On Baire-like spaces of spaces of continuous vector-valued functions. **98c:46071**
Oubbi, L. M-quasibarrelledness in the algebra $c_0(E)$. (Italian summary) **98d:46056**
Pombo, Dinamérico P., Jr. Module bornologies. (English summary) **98a:46055**
Rodríguez Salinas, Baltasar On superbarrelled spaces. Closed graph theorems. (English summary) **98f:46005**
Sidney, Stuart J. *see* **Bernard, Alain, 98j:46020**
Swartz, Charles ★ Infinite matrices and the gliding hump. (English summary) **98b:46002**

46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)

Barnwal, Bhola Shankar *see* **Mishra, Shiva Kumar**
Bessaga, C. (*with* Hernando Boto, B.; Martín-Peinador, E.) ★ An introduction to nuclear space. (English summary) **98g:46002**
Bonet, José Intersections of Fréchet Schwartz spaces and their duals. (English summary) **98a:46007**
Bu, Qing Ying A new characterization of nuclear locally convex spaces. (Chinese. English and Chinese summaries)
Dragilev, M. M. On subspaces of nuclear spaces. (Russian. Russian summary) **98c:46004**
Hernando Boto, B. *see* **Bessaga, C.; et al., 98g:46002**
Krone, Jörg (*with* Walldorf, Volker) Complemented subspaces with a strong finite-dimensional decomposition of nuclear Köthe spaces have a basis. (English summary) **98k:46003**

Martín-Peinador, E. *see* **Bessaga, C.; et al., 98g:46002**
Mishra, Shiva Kumar (*with* Barnwal, Bhola Shankar) On diametral dimensions for structure of nuclear spaces. (English summary)
Prasad, Bhagwan *see* **Singh, Saket Bihari; et al.**
Singh, Pramod Kumar *see* **Singh, Saket Bihari; et al.**
Singh, Saket Bihari (*with* Prasad, Bhagwan; Singh, Pramod Kumar) Some characterization of nuclear spaces.
Wallidorf, Volker *see* **Krone, Jörg, 98k:46003**

Items with secondary classifications in 46A11

Deheri, G. M. Topological influence of the presence of fully-λ-bases in locally convex spaces. (English summary) **98b:46013**
Dineen, Seán Complex analysis in an infinite-dimensional setting. **98e:46053**
Khurana, Surjit Singh Vector-valued continuous functions and nuclear spaces. (English summary) **98m:46051**
López Molina, J. A. (*with* Rivera Ortún, María José) Bounded, Montel and compact operators on spaces of Moscatelli type. (English summary) **98c:46002**
Rivera Ortún, María José *see* **López Molina, J. A., 98c:46002**
Soraggi, Roberto Luiz Local factorization of differential forms on Fréchet-Schwartz spaces. (English summary) **98i:46045**

46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [see also 46M40]

Carboni, Graciela (*with* Larotonda, Angel R.) Exactness of the Frobenius limit. (Spanish)
Dierolf, Susanne (*with* Khin Aye Aye) On projective limits of Moscatelli type. (English summary) **98a:46008**
Khin Aye Aye *see* **Dierolf, Susanne, 98a:46008**
Larotonda, Angel R. *see* **Carboni, Graciela**
Mangino, Elisabetta M. (LF)-spaces and tensor products. (English summary) **98h:46003**
Qiu, Jing Hui (*with* Zhang, Jianping) Completeness of (LF)-spaces. (English and Chinese summaries) **98f:46004**
Zhang, Jianping *see* **Qiu, Jing Hui, 98f:46004**

Items with secondary classifications in 46A13

Akkar, Mohamed (*with* Nacir, C.) Sur la vacuité du spectre d'un élément d'une algèbre $\mathscr{LF}$. (English summary) [On the emptiness of the spectrum of an element of an $\mathscr{LF}$ algebra] **98m:46064**
Albanese, Angela A. (*with* Moscatelli, V. B.) Complemented subspaces of sums and products of copies of $L^1[0,1]$. (English summary) **98c:46045**
Braun, Rüdiger W. (*with* Vogt, Dietmar) A sufficient condition for $\mathrm{Proj}^1\mathscr{X} = 0$. **98c:46162**
De Grande-De Kimpe, Nicole (*with* Kąkol, Jerzy; Pérez-García, Cristina; Schikhof, W. H.) p-adic locally convex inductive limits. **98i:46077**
— (*with* Kąkol, Jerzy; Pérez-García, Cristina) On compactoids in (LB)-spaces. (English summary) **98m:46097**
Domański, Paweł (*with* Krone, Jörg; Vogt, Dietmar) Standard exact projective resolutions relative to a countable class of Fréchet spaces. (English summary) **98a:46005**
Esterle, Jean Countable inductive limits of Fréchet algebras. (English summary) **98d:46046**
Hadjigeorgiou, R. I. Boundaries in inductive limit topological algebras. (English summary) **98c:46096**
Joó, Istvan Some resonance theorems. **98d:47006**
Kąkol, Jerzy *see* **De Grande-De Kimpe, Nicole; et al., 98i:46077** *and* **98m:46097**
Krone, Jörg *see* **Domański, Paweł; et al., 98a:46005**
Mattila, Päivi (*with* Saksman, Eero; Taskinen, Jari) Weighted spaces of harmonic and holomorphic functions: sequence space representations and projective descriptions. (English summary) **98c:46048**
Moscatelli, V. B. *see* **Albanese, Angela A., 98c:46045**
Nacir, C. *see* **Akkar, Mohamed, 98m:46064**
Pérez-García, Cristina *see* **De Grande-De Kimpe, Nicole; et al., 98i:46077** *and* **98m:46097**
Saksman, Eero *see* **Mattila, Päivi; et al., 98c:46048**
Schikhof, W. H. *see* **De Grande-De Kimpe, Nicole; et al., 98i:46077**
Taskinen, Jari *see* **Mattila, Päivi; et al., 98c:46048**
Vogt, Dietmar *see* **Domański, Paweł; et al., 98a:46005** *and* **Braun, Rüdiger W., 98c:46162**
Wengenroth, Jochen Weighted (LF)-spaces of measurable functions. (English summary) **98i:46025**

46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)

Alegre Gil, Carmen (*with* Ferrer, Jesús; Gregori, V.) Quasi-uniformities on real vector spaces. (English summary)
Arandjelović, Ivan On the weak admissibility on topological vector spaces and its application in fixed point theory. (English summary) **98k:46004**
Chen, Gui Jun (*with* Wang, De Jun) A topological structure in linear topological spaces. (Chinese. English and Chinese summaries) **98a:46009**
Ferrer, Jesús *see* **Alegre Gil, Carmen; et al.**
Gregori, V. *see* **Alegre Gil, Carmen; et al.**
Henson, C. Ward (*with* Kalton, Nigel J.; Peck, N. Tenney; Tereščák, Ignác; Zlatoš, Pavol) Some Ramsey type theorems for normed and quasinormed spaces. (English summary) **98a:46010**
Kalton, Nigel J. *see* **Henson, C. Ward; et al., 98a:46010**
Marciszewski, Witold On topological embeddings of linear metric spaces. **98i:46002**
Nguyễn Nhụy *see* **Nguyen To Nhu; et al., 98b:46008**
Nguyen To Nhu (*with* Nguyễn Nhụy; Trần Văn Ân) Regular retractions onto finite-dimensional convex sets and the AR-property for Roberts spaces. (English summary) **98b:46008**
— (*with* Trần Văn Ân; Pham Quang Trinh) LC-decomposability and the AR-property in linear metric spaces. (English summary) **98d:46003**
Peck, N. Tenney *see* **Henson, C. Ward; et al., 98a:46010**
Pham Quang Trinh *see* **Nguyen To Nhu; et al., 98d:46003**
Srivastava, P. D. Proper basis in a complete linear metric space. (English summary) **98h:46004**
Tereščák, Ignác *see* **Henson, C. Ward; et al., 98a:46010**
Trần Văn Ân *see* **Nguyen To Nhu; et al., 98b:46008** *and* **98d:46003**
Wang, De Jun *see* **Chen, Gui Jun, 98a:46009**
Żelazko, W. The strongest vector space topology is locally convex on separable linear subspaces. (English summary) **98c:46005**
Zlatoš, Pavol *see* **Henson, C. Ward; et al., 98a:46010**

Items with secondary classifications in 46A16

Arandjelović, Ivan (*with* Milovanović-Aranđelović, Marina M.) Some properties of Hausdorff measure of noncompactness on locally bounded topological vector spaces. (English summary) (*see* **98k:00020**)
Bayoumi, Aboubakr Infinite-dimensional holomorphy without convexity condition. I. The Levi problem in nonlocally convex spaces. (English summary) **98m:46061**
Braguera, M. Montserrat Some properties of locally quasi-convex groups. (English summary) **98k:22002**
Cianciaruso, F. (*with* De Pascale, Espedito) Discovering the algebraic structure on the metric injective envelope of a real Banach space. (English summary) **98i:46007**
De Pascale, Espedito *see* **Cianciaruso, F., 98i:46007**
Khan, Liaqat Ali[1] (*with* Thaheem, A. B.) Multiplication operators on weighted spaces in the non-locally convex framework. (English summary) **98b:47042**
Luo, Yue Hu Some conditions for the existence of functionals in linear topological spaces. (Chinese. Chinese summary) **98c:46006**
Milovanović-Aranđelović, Marina M. *see* **Arandjelović, Ivan, (98k:00020)**
Runst, Thomas Singularities in quasi-Banach spaces with applications to semilinear elliptic equations. II. (English summary) **98c:35063**
Thaheem, A. B. *see* **Khan, Liaqat Ali[1], 98b:47042**

46A17 Bornologies and related structures; Mackey convergence, etc.

Pombo, Dinamérico P., Jr. A note on the paper: "Linear topologies and linear bornologies on modules" [J. Indian Math. Soc. (N.S.) **59** (1993), no. 1-4, 107–117; MR 94k:46010]. **98g:46003**

Items with secondary classifications in 46A17

Haluška, Ján On integration in complete bornological locally convex spaces. (English summary) **98h:46044**

46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than R, etc.)

Cho, Yeol Je *see* **Kim, Seong Sik, 98a:46011**
Kim, Seong Sik (*with* Cho, Yeol Je) Strict convexity in linear n-normed spaces. **98a:46011**

Items with secondary classifications in 46A19

Cho, Yeol Je *see* **Kim, Seong Sik; et al., 98j:46017**
Franić, Ivan On the best coapproximation in linear 2-normed spaces. (English summary) **98g:41038**
Kim, Seong Sik (*with* Cho, Yeol Je; White, Albert George, Jr.) 2-pre-Hilbertian 2-norms and Gateaux derivatives. (English summary) **98j:46017**
Lee, Sang Han Reflexivity of normed almost linear spaces. (English summary) **98e:46023**
White, Albert George, Jr. *see* **Kim, Seong Sik; et al., 98j:46017**

46A20 Duality theory

Items with secondary classifications in 46A20

Kadelburg, Zoran *see* **Radenović, Stojan, (98k:00020)**
Kąkol, Jerzy (*with* Pérez-García, Cristina; Śliwa, Wiesław) Remarks on quasi-Banach spaces over valued fields. (English summary) **98m:46098**
Pérez-García, Cristina *see* **Kąkol, Jerzy; et al., 98m:46098**
Radenović, Stojan (*with* Kadelburg, Zoran) Weak topology in locally convex spaces with a fundamental sequence of bounded subsets. (English summary) (*see* **98k:00020**)
Śliwa, Wiesław *see* **Kąkol, Jerzy; et al., 98m:46098**

46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [see also 46M10]

Luo, Yue Hu Some conditions for the existence of functionals in linear topological spaces. (Chinese. Chinese summary) **98c:46006**
Páles, Zsolt Separation by semidefinite bilinear forms. (English summary) **98g:46004**

Items with secondary classifications in 46A22

Bălaj, Mircea On separation of sets by convex functionals.
Beckenstein, Edward *see* **Narici, Lawrence, 98c:01033**
Dellacherie, Claude Une version non linéaire du théorème de représentation de Riesz. (English and French summaries) [A nonlinear version of the Riesz representation theorem] **98d:46021**
Ger, Roman Mazur's criterion for continuity of convex functionals. (English summary) **98b:39024**
Kąkol, Jerzy (*with* Pérez-García, Cristina; Śliwa, Wiesław) Remarks on quasi-Banach spaces over valued fields. (English summary) **98m:46098**
Narici, Lawrence (*with* Beckenstein, Edward) The Hahn-Banach theorem: the life and times. (English summary) **98c:01033**

Pérez-García, Cristina *see* **Kąkol, Jerzy; et al., 98m:46098**
Śliwa, Wiesław *see* **Kąkol, Jerzy; et al., 98m:46098**
Xuan, Heng Nong A unification and generalization of the uniform boundedness principle for two families of functionals. (Chinese. English and Chinese summaries) **98c:46030**

46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)

Bonet, José Closed linear maps from a barrelled normed space into itself need not be continuous. (English summary) **98k:46005**
Pap, Endre (*with* Swartz, Charles) A locally convex version of adjoint theorem. (English summary) **98d:46004**
— (*with* Swartz, Charles) The adjoint theorem on A-spaces. (English summary) **98d:46005**
Rodríguez Salinas, Baltasar On superbarrelled spaces. Closed graph theorems. (English summary) **98f:46005**
Smirnov, E. I. The theory of Hausdorff spectra in the category of locally convex spaces. (English summary) **98i:46003**
Swartz, Charles *see* **Pap, Endre, 98d:46004** *and* **98d:46005**
Velasco, M. V. (*with* Villena Muñoz, Armando R.) A random closed graph theorem. (Italian summary) **98b:46009**
Villena Muñoz, Armando R. *see* **Velasco, M. V., 98b:46009**

Items with secondary classifications in 46A30

Gal, Sorin G. (*with* Villena Muñoz, Armando R.) Random condensation of singularities and applications. (English summary) **98k:46127**
Gilsdorf, Thomas E. (*with* Kąkol, Jerzy) On some non-Archimedean closed graph theorems. (English summary) **98k:46128**
Kąkol, Jerzy *see* **Gilsdorf, Thomas E., 98k:46128**
Qiu, Jing Hui (*with* Zhang, Jianping) Completeness of (LF)-spaces. (English and Chinese summaries) **98f:46004**
Roth, Walter A uniform boundedness theorem for locally convex cones. (English summary) **98j:46002**
Villena Muñoz, Armando R. *see* **Gal, Sorin G., 98k:46127**
Zhang, Jianping *see* **Qiu, Jing Hui, 98f:46004**

46A32 Spaces of linear operators; topological tensor products; approximation properties [see also 46B28, 46M05, 47D15, 47D50]

Bu, Qing Ying (*with* Fu, Yong Qiang) Orlicz-Pettis type theorem for compact operators. (English summary) **98g:46005**
Fu, Yong Qiang *see* **Bu, Qing Ying, 98g:46005**

Items with secondary classifications in 46A32

Blasco, Fernando Complementation in spaces of symmetric tensor products and polynomials.
— Complementation in spaces of symmetric tensor products and polynomials. (English summary) **98d:46043**
— Polynomials on Köthe echelon spaces. (English summary) **98h:46046**
Díaz Alcaide, Juan Carlos On unconditional bases in tensor products of Köthe echelon spaces. **98j:46003**
Kour, Kamaljeet *see* **Singh, Raj Kishor; et al., 98d:47073**
López Molina, J. A. (*with* Rivera Ortún, María José) Bounded, Montel and compact operators on spaces of Moscatelli type. (English summary) **98c:46002**
— (*with* Rivera Ortún, María José) A note on natural tensor products containing complemented copies of c_0. (English summary) **98c:46156**
Mangino, Elisabetta M. (LF)-spaces and tensor products. (English summary) **98h:46003**
Rivera Ortún, María José *see* **López Molina, J. A., 98c:46002** *and* **98c:46156**
Singh, Bhopinder (*with* Singh, Raj Kishor; Takagi, Hiroyuki) Weighted composition operators on a space of operators. (English summary) **98d:47074**
— *see also* **Singh, Raj Kishor; et al., 98d:47073**
Singh, Raj Kishor (*with* Singh, Bhopinder; Kour, Kamaljeet) Idempotent composition and multiplication operators on a space of operators. (English summary) **98d:47073**
— *see also* **Singh, Bhopinder; et al., 98d:47074**
Takagi, Hiroyuki *see* **Singh, Bhopinder; et al., 98d:47074**
Tsertos, Yannis On the locally m-convex algebra $L_\Gamma(E)$ and a differential-geometric interpretation of it. **98h:46051**
Vera Mendoza, Rigoberto The (Γ, t)-topology on $L(E, E)$ and the spectrum of a bounded linear operator on a locally convex topological vector space. (English summary)

46A35 Summability and bases [see also 46B15]

Burova, T. V. Topological characteristics of free bases of topological groups and topological vector spaces. (Russian. Russian summary) **98b:46010**
Chasco Ugarte, Ma. Jesús (*with* Chobanyan, Sergei) On rearrangements of series in locally convex spaces. **98k:46006**
Chobanyan, Sergei *see* **Chasco Ugarte, Ma. Jesús, 98k:46006**
Díaz Alcaide, Juan Carlos On unconditional bases in tensor products of Köthe echelon spaces. **98j:46003**
Im, Sung Mo (*with* Lee, Sang Han) A metric induced by a norm on normed almost linear spaces. **98g:46006a**
— (*with* Lee, Sang Han) Uniqueness of bases for almost linear spaces. **98g:46006b**
Jarrah, A. M. (*with* Tallafha, Abdalla) Open problems in bases theory. (English summary)
— On independent sequences in topological vector spaces. (English summary) **98i:46004**
Lee, Sang Han *see* **Im, Sung Mo, 98g:46006a** *and* **98g:46006b**
Li, Rong Lu *see* **Wu, Junde; et al., 98e:46002**
Tallafha, Abdalla *see* **Jarrah, A. M.**
Wojtaszczyk, P. Uniqueness of unconditional bases in quasi-Banach spaces with applications to Hardy spaces. II. (English summary) **98g:46007**
Wu, Junde (*with* Li, Rong Lu; Xu, Shaohua) $\mathscr{H}$-convergent sequences in topological vector spaces with a basis. (English summary) **98e:46002**
Xu, Shaohua *see* **Wu, Junde; et al., 98e:46002**

Items with secondary classifications in 46A35

Bessaga, C. (*with* Hernando Boto, B.; Martín-Peinador, E.) ★ An introduction to nuclear space. (English summary) **98g:46002**
Bu, Qing Ying (*with* Fu, Yong Qiang) Orlicz-Pettis type theorem for compact operators. (English summary) **98g:46005**
Fang, Jin Xuan On local bases of fuzzy topological vector spaces. (English summary) **98c:46166**
Fu, Yong Qiang *see* **Bu, Qing Ying, 98g:46005**
Hernando Boto, B. *see* **Bessaga, C.; et al., 98g:46002**
Krone, Jörg (*with* Walldorf, Volker) Complemented subspaces with a strong finite-dimensional decomposition of nuclear Köthe spaces have a basis. (English summary) **98k:46003**
Martín-Peinador, E. *see* **Bessaga, C.; et al., 98g:46002**
Srivastava, P. D. Proper basis in a complete linear metric space. (English summary) **98h:46004**
Walldorf, Volker *see* **Krone, Jörg, 98k:46003**
Weber, Hans A diagonal theorem. Answer to a question of Antosik. (English summary) **98c:22001**

46A40 Ordered topological linear spaces, vector lattices [see also 06F20, 46B40, 46B42]

Cain, Bryan (*with* Hershkowitz, Daniel; Schneider, Hans) Theorems of the alternative for cones and Lyapunov regularity of matrices. (English summary) **98m:46002**
Drewnowski, Lech (*with* Labuda, Iwo) The Orlicz-Pettis theorem for topological Riesz spaces. (English summary) **98e:46003**
— (*with* Labuda, Iwo) Copies of c_0 and l_∞ in topological Riesz spaces. (English summary) **98k:46007**
Ger, Joanna (*with* Ger, Roman) On some curves in vector lattices. (English summary) **98a:46012**
Ger, Roman *see* **Ger, Joanna, 98a:46012**
Hershkowitz, Daniel *see* **Cain, Bryan; et al., 98m:46002**
Kawasaki, Toshiharu Order derivative of operators in vector lattices. (English summary) **98k:46008**
— On Newton integration in vector spaces. (English summary) **98k:46009**
Labuda, Iwo *see* **Drewnowski, Lech, 98e:46003** *and* **98k:46007**
Potepun, A. V. Order topology in vector lattices with closure by one step. (English summary) **98c:46007**
Roth, Walter Real and complex linear extensions for locally convex cones. (English summary) **98k:46010**
Schneider, Hans *see* **Cain, Bryan; et al., 98m:46002**
Wu, Kangping The strict positivity in a nonstandard hull and its applications to economics. (English summary) **98b:46011**
Xiong, Hongyun Remarks on the representation theorem for Riesz spaces possessing weak units. (English and Chinese summaries) **98d:46006**

Items with secondary classifications in 46A40

Beg, Ismat (*with* Islam, Misbah Ul) Fuzzy Archimedean spaces. (English summary) **98h:46085**
— σ-complete fuzzy Riesz spaces. (English summary) **98d:46087**
Buskes, G. J. H. M. On extension of Riesz homomorphisms. II. **98a:47037**
Cristescu, Romulus On regular operators between ordered spaces. (Italian. English summary) **98j:47080**
Duchoň, Miloslav (*with* Riečan, Beloslav) Generalized moment problem in vector lattices. (English summary) **98g:44003**
Emel'yanov, Èduard Yu. Invariant homomorphisms of nonstandard extensions of Boolean algebras and vector lattices. (Russian. Russian summary) **98g:06022**
Feledziak, Krzysztof (*with* Nowak, Marian) Locally solid topologies on vector valued function spaces. (English summary) **98k:46061**
Hager, Anthony W. (*with* Kizanis, Ann) Certain extensions and factorizations of α-complete homomorphisms in Archimedean lattice-ordered groups. (English summary) **98b:06027**
Heikkilä, Seppo Applications of a recursion method to maximization problems in partially ordered spaces. (English summary) **98g:06003**
Islam, Misbah Ul *see* **Beg, Ismat, 98h:46085**
Kizanis, Ann *see* **Hager, Anthony W., 98b:06027**
Nowak, Marian *see* **Feledziak, Krzysztof, 98k:46061**
Rădulescu, Vicenţiu D. Vector norms and duality properties in normed vector spaces. (English summary) **98e:46005**
Riečan, Beloslav *see* **Duchoň, Miloslav, 98g:44003**
Roth, Walter A uniform boundedness theorem for locally convex cones. (English summary) **98j:46002**
(Rubinov, Aleksandr M.) *see* **Singer, Ivan, 98k:49002**
Singer, Ivan ★ Abstract convex analysis. **98k:49002**
Weber, Hans On modular functions. (English summary) **98j:28008**

46A45 Sequence spaces (including Köthe sequence spaces) [see also 46B45]

Ahmad, Z. U. (*with* Gaur, A. K.; Saifi, A. H.) Some new sequence spaces: their duals and matrix transformations. (English summary) **98c:46008**
— (*with* Chishti, T. A.) Some spaces of lacunary sequences defined by the modulus. (English summary) **98f:46006**
— Generalized spaces of difference sequences. (English summary) **98g:46008**
Balasubramanian, T. *see* **Chandrasekhara Rao, K., 98b:46012**

Başar, Feyzi Matrix sequences and certain spaces of double sequences. (English summary) **98g:46009**
Chandrasekhara Rao, K. (*with* Balasubramanian, T.) Some classes of entire sequences. (English summary) **98b:46012**
Chishti, T. A. *see* **Ahmad, Z. U., 98f:46006**
Deheri, G. M. Topological influence of the presence of fully-λ-bases in locally convex spaces. (English summary) **98b:46013**
Díaz Alcaide, Juan Carlos (*with* Grosse-Erdmann, Karl-Goswin) On non-distinguished matrix domains. (English summary) **98h:46005**
Dierolf, Susanne (*with* Domański, Paweł) Null sequences in coechelon spaces. (English summary) **98a:46013**
Djakov, P. (*with* Yurdakul, M.) Strictly singular operators and isomorphisms of Cartesian products. **98j:46004**
Domański, Paweł *see* **Dierolf, Susanne, 98a:46013**
Frerick, L. On vector-valued sequence spaces. (English summary) **98b:46014**
Ganguly, D. K. (*with* Ray, Snigdha) Some properties of a set C_k in l_p-space. (English summary) **98d:46007**
Gaur, A. K. *see* **Ahmad, Z. U.; et al., 98c:46008**
Gnanaseelan, C. (*with* Srivastava, P. D.) The α-, β-, γ-duals of some generalised difference sequence spaces. (English summary) **98k:46011**
Grosse-Erdmann, Karl-Goswin *see* **Díaz Alcaide, Juan Carlos, 98h:46005**
Kara, H. Generalized sequence spaces. (English summary)
Khan, F. M. (*with* Khan, Mushir A.) $\sigma(A)$-boundedness and absolute σ-summability. (English summary)
Khan, Mushir A. (*with* Qamaruddin) Some generalized sequence spaces and related matrix transformations. (English summary) **98g:46010**
— *see also* **Khan, F. M.**
Lin, Ping[2] Bounded sets and weak convergence in the locally convex space (λ, μ). (Chinese. English and Chinese summaries) **98k:46012**
Liu, Shao Wu (*with* Yuan, Gui Fang) Idempotence-preserving operators on spaces of matrices over fields. (Chinese)
Nanda, Sudarsan Köthe-Toeplitz duals of certain classes of sequences.
Qamaruddin *see* **Khan, Mushir A., 98g:46010**
Rath, D. (*with* Tripathy, B. C.) Matrix maps on sequence spaces associated with sets of integers. (English summary) **98c:46009**
Ratha, A. (*with* Srivastava, P. D.) On some vector valued sequence spaces $\mathscr{L}^{(p)}(E_k, \Lambda)$. (English summary) **98c:46010**
— Continuous linear functionals and operators on some vector sequence spaces. (English summary) **98j:46006**
— Some vector sequence spaces and bounded linear operators. (English summary) **98j:46005**
Ray, Snigdha *see* **Ganguly, D. K., 98d:46007**
Rodríguez Salinas, Baltasar Subspaces with symmetric basis in the Orlicz space $l_F(I)$. (English summary) **98b:46015**
Saifi, A. H. *see* **Ahmad, Z. U.; et al., 98c:46008**
Savas, Ekrem Sequence spaces defined by infinite matrices and statistical convergence. **98g:46011**
Somasundaram, D. Matrix transformations of some generalised sequence spaces. (English summary)
Srivastava, P. D. *see* **Ratha, A., 98c:46010** *and* **Gnanaseelan, C., 98k:46011**
Stuart, Christopher E. Weak sequential completeness of β-duals. **98g:46012**
Sznajder, Roman Calculating norms in the spaces $l^\infty(\Gamma)/c_0(\Gamma)$ and $l^\infty(\Gamma)/c(\Gamma)$. (English summary)
Tripathy, B. C. *see* **Rath, D., 98c:46009**
Yuan, Gui Fang *see* **Liu, Shao Wu**
Yurdakul, M. *see* **Djakov, P., 98j:46004**

Items with secondary classifications in 46A45

Ahmad, Z. U. (*with* Qamaruddin) Knopp's core-like theorems. (English summary) **98m:40002**
— (*with* Khan, Q. A.) Generalized almost convergence and Knopp's core theorem. (English summary) **98b:40001**
Arslan, Bora (*with* Kocatepe, Mefharet) An application of linear topological invariants. (English and Turkish summaries) **98k:46002**
Başarir, Metin (*with* Et, Mikail) On matrix sequences on cs and bs. (English summary) **98f:40002**
Bilgin, Tunay Strong A_a-summability defined by a modulus. (English and Turkish summaries) **98a:40008**
Díaz Alcaide, Juan Carlos On unconditional bases in tensor products of Köthe echelon spaces. **98j:46003**
Drewnowski, Lech Barrelled spaces with Boolean rings of projections. (English summary) **98m:46001**
Et, Mikail *see* **Başarir, Metin, 98f:40002**
Finol, Carlos (*with* Hudzik, Henryk; Maligranda, Lech) Orlicz spaces which are AM-spaces. (English summary) **98h:46027**
Hudzik, Henryk *see* **Finol, Carlos; et al., 98h:46027**
Khan, Q. A. *see* **Ahmad, Z. U., 98b:40001**
Kocatepe, Mefharet *see* **Arslan, Bora, 98k:46002**
Krone, Jörg (*with* Walldorf, Volker) Complemented subspaces with a strong finite-dimensional decomposition of nuclear Köthe spaces have a basis. (English summary) **98k:46003**
Maligranda, Lech *see* **Finol, Carlos; et al., 98h:46027**
Malkowsky, Eberhard (*with* Parashar, S. D.) Matrix transformations in spaces of bounded and convergent difference sequences of order m. (English summary) **98f:40009**
— Recent results in the theory of matrix transformations in sequence spaces. (English summary) **98m:40006**
Natarajan, P. N. On a generalized product of certain sequences over non-Archimedean fields. II. (English summary) **98f:46064**
— Some Steinhaus type theorems over valued fields. **98f:46065**
Parashar, S. D. *see* **Malkowsky, Eberhard, 98f:40009**
Pehlivan, Serpil On X-valued sequence spaces. (English summary) **98d:40008**
Qamaruddin *see* **Ahmad, Z. U., 98m:40002**
Ruckle, William H. *see* **Saxon, Stephen A., 98c:46041**
Saxon, Stephen A. (*with* Ruckle, William H.) Reducing the classical multipliers l^∞, c_0 and bv_0. (English summary) **98c:46041**
Swartz, Charles ★ Infinite matrices and the gliding hump. (English summary) **98b:46002**
Velikin, V. L. *see* **Velikina, Yu. V., 98a:41037**
Velikina, Yu. V. (*with* Velikin, V. L.) Widths of sets of functions of a discrete argument. (Russian. English and Ukrainian summaries) **98a:41037**
Walldorf, Volker *see* **Krone, Jörg, 98k:46003**
Wu, Cong Xin Topological algebras of infinite matrix operators between sequence spaces. (Chinese)

46A50 Compactness in topological linear spaces; angelic spaces, etc.

Items with secondary classifications in 46A50

Buldygin, V. V. (*with* Shurenkova, A. V.) On a criterion of compactness in the space L_p. (English summary) **98c:46055**
Cheng, Lixin *see* **Wang, Xiaomin, 98g:46021**
Dierolf, Susanne (*with* Domański, Paweł) Null sequences in coechelon spaces. (English summary) **98a:46013**
Domański, Paweł *see* **Dierolf, Susanne, 98a:46013**
Matsuda, Minoru On characterizations of K-weakly precompact sets in Banach spaces. (Japanese) (*see* **98g:00027**)
Moors, Warren B. A characterisation of weak compactness in Banach spaces. (English summary) **98g:46019**
Shurenkova, A. V. *see* **Buldygin, V. V., 98c:46055**
Wang, Xiaomin (*with* Cheng, Lixin) A note on weakly compact sets in Banach space. (English summary) **98g:46021**

46A55 Convex sets in topological linear spaces; Choquet theory [see also 52A07]

Becker, Richard Edouard A new tool in the theory of integral representation. **98i:46005**
Bernués, J. (*with* Peña, Ana) On the shape of p-convex hulls, $0 < p < 1$. **98b:46016**
Peña, Ana *see* **Bernués, J., 98b:46016**

Items with secondary classifications in 46A55

Bronshtein, E. M. Extreme points of convex compacta in the Hilbert cube. (Russian) **98e:54015**
Dobrowolski, Tadeusz (*with* Marciszewski, Witold) Rays and the fixed point property in noncompact spaces. (English summary) **98d:54036**
Grzybowski, Jerzy A note on summands of compact convex sets. (English summary) **98c:52002**
Marciszewski, Witold *see* **Dobrowolski, Tadeusz, 98d:54036**
Nguyen To Nhu (*with* Trần Văn Ân; Pham Quang Trinh) LC-decomposability and the AR-property in linear metric spaces. (English summary) **98d:46003**
Pham Quang Trinh *see* **Nguyen To Nhu; et al., 98d:46003**
Rybakov, V. I. On the convergence on the boundary of the unit ball in a dual space. (Russian. Russian summary) **98c:46028**
Trần Văn Ân *see* **Nguyen To Nhu; et al., 98d:46003**

46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)

Items with secondary classifications in 46A70

Feledziak, Krzysztof Uniformly Lebesgue topologies on Köthe-Bochner spaces. (English summary) **98k:46062**

46A80 Modular spaces

Items with secondary classifications in 46A80

Musielak, Julian Approximation in modular function spaces. (English summary) **98m:46036**

46A99 None of the above, but in this section

Hušek, Miroslav Productivity of some classes of topological linear spaces. (English summary) **98i:46006**
Li, Gui Lan *see* **Wang, Run Jie; et al., 98a:46014**
Wang, Run Jie (*with* Zhang, De Xin; Li, Gui Lan) A uniform boundedness theorem for a family of closed convex processes on an incomplete normed space. (Chinese. English and Chinese summaries) **98a:46014**
Zhang, De Xin *see* **Wang, Run Jie; et al., 98a:46014**

Items with secondary classifications in 46A99

Birsan, Temistocle Une extension du principe de la majoration uniforme. (Romanian summary) [An extension of the uniform upper bound principle]
Chalov, P. A. Comparison of invariants for triples of Hilbert spaces. (English and Turkish summaries) **98c:46044**
Chen, Yu Qing *see* **Zhang, Shi Sheng; et al., 98c:46043**
Grząślewicz, Ryszard Extreme continuous function property. **98b:46099**
Katsaras, A. K. (*with* Pérez-García, Cristina) Λ_0-nuclear operators and A_0-nuclear spaces in p-adic analysis. (English summary) **98f:46063**
Lee, Byung Soo *see* **Zhang, Shi Sheng; et al., 98c:46043**

López-Pellicer, Manuel Webs and bounded finitely additive measures. (English summary) **98i:46034**
Pérez-García, Cristina *see* **Katsaras, A. K., 98f:46063**
Weber, Hans A diagonal theorem. Answer to a question of Antosik. (English summary) **98c:22001**
Zhang, Shi Sheng (*with* Chen, Yu Qing; Lee, Byung Soo) On the semi-inner product in locally convex spaces. (English summary) **98c:46043**

46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx.}

(Beauzamy, Bernard) *see* **Fetter, Helga, 98k:46013**
Casazza, Peter G. (*with* Nielsen, N. J.) A Gaussian average property of Banach spaces. **98g:46013**
Fetter, Helga (*with* Gamboa de Buen, Berta) ★ The James forest. (English summary) **98k:46013**
Gamboa de Buen, Berta *see* **Fetter, Helga, 98k:46013**
(James, Robert C.) *see* **Fetter, Helga, 98k:46013**
Lin, Pei-Kee The average distance property of Banach spaces. (English summary) **98e:46004**
Nielsen, N. J. *see* **Casazza, Peter G., 98g:46013**

Items with secondary classifications in 46Bxx

Le Merdy, Christian Factorization of p-completely bounded multilinear maps. (English summary) **98b:46073**
Maurey, Bernard (*with* Pisier, Gilles) ★ Espaces de Banach classiques et quantiques. (French) [Classical and quantum Banach spaces] **98b:46003**
Pisier, Gilles *see* **Maurey, Bernard, 98b:46003**

46B03 Isomorphic theory (including renorming) of Banach spaces

Bossard, Benoît Coanalytic families of norms on a separable Banach space. **98a:46015**
Fabian, Marián J. (*with* Zizler, Václav) A note on twisted sums of rotund Banach spaces and extension of injections. (English summary) **98m:46003**
Zizler, Václav *see* **Fabian, Marián J., 98m:46003**

Items with secondary classifications in 46B03

Emmanuele, G. (*with* John, Kamil) Uncomplementability of spaces of compact operators in larger spaces of operators. (English summary) **98e:46017**
John, Kamil *see* **Emmanuele, G., 98e:46017**
Maurey, Bernard Quelques progrès dans la compréhension de la dimension infinie. (French summary) [Some progress toward understanding the infinite-dimensional] **98g:46017**

46B04 Isometric theory of Banach spaces

Cianciaruso, F. (*with* De Pascale, Espedito) Discovering the algebraic structure on the metric injective envelope of a real Banach space. (English summary) **98i:46007**
De Pascale, Espedito *see* **Cianciaruso, F., 98i:46007**
Villa, Rafael Isometric embedding into spaces of continuous functions. (English summary) **98m:46004**
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— *see also* **Giannopoulos, Apostolos A., 98f:46007** *and* **Litvak, A. E.; et al., 98f:46008**
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Emmanuele, G. (*with* John, Kamil) Uncomplementability of spaces of compact operators in larger spaces of operators. (English summary) **98e:46017**
Gohm, Rolf A spectral classification of operators related to polynomial boundedness. (English summary) **98a:47017**
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Lu, Yonghuai (*with* Zeng, Liu Chuan) On the locally nearly uniform smoothness of sets in Banach spaces. (English and Chinese summaries) **98a:46026**
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Li, Yong Jin *see* **Te, Gu Si; et al., 98e:46006**
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Lennard, C. J. *see* **Dowling, P. N.; et al., 98m:46023**

Lin, Bor-Luh *see* **Chen, Shutao, 98m:46022**

Liu, Yu Qiang Normal orthogonally additive functionals on the space c. (Chinese. English and Chinese summaries) **98b:46023**

Turett, B. *see* **Dowling, P. N.; et al., 98m:46023**

Items with secondary classifications in 46B25

López Molina, J. A. (*with* Rivera Ortún, María José) A note on natural tensor products containing complemented copies of c_0. (English summary) **98c:46156**

Rivera Ortún, María José *see* **López Molina, J. A., 98c:46156**

46B26 Nonseparable Banach spaces

Items with secondary classifications in 46B26

Fabian, Marián J. (*with* Hájek, Petr[1]; Zizler, Václav) A note on lattice renormings. (English summary) **98e:46008**

Hájek, Petr[1] *see* **Fabian, Marián J.; et al., 98e:46008**

Rodríguez Salinas, Baltasar Subspaces with symmetric basis in the Orlicz space $l_\phi(I)$. (English summary) **98b:46015**

Zizler, Václav *see* **Fabian, Marián J.; et al., 98e:46008**

46B28 Spaces of operators; tensor products; approximation properties [see also 46A32, 46M05, 47D15, 47D50]

Arias, Alvaro (*with* Farmer, Jeff D.) On the structure of tensor products of l_p-spaces. (English summary) **98d:46015**

Carl, Bernd (*with* Defant, Andreas) Asymptotic estimates for approximation quantities of tensor product identities. (English summary) **98a:46030**

Cho, Chong-Man Remarks on M-ideals of compact operators. **98c:46031**

— (*with* Kim, Beom Sool) On M-ideal properties of certain spaces of compact operators. (English summary) **98c:46032**

Choi, Yun Sung Norm attaining bilinear forms on $L^1[0, 1]$. (English summary) **98e:46015**

Defant, Andreas *see* **Carl, Bernd, 98a:46030**

Emmanuele, G. On the position of the space of representable operators in the space of linear operators. (English summary) **98e:46016**

— (*with* John, Kamil) Uncomplementability of spaces of compact operators in larger spaces of operators. (English summary) **98e:46017**

— (*with* John, Kamil) Some remarks on the position of the space $K(X, Y)$ inside the space $W(X, Y)$. (English summary) **98m:46024**

Farmer, Jeff D. *see* **Arias, Alvaro, 98d:46015**

Grosser, Michael Quasi-multipliers of the algebra of approximable operators and its duals. (English summary) **98k:46029**

Grząślewicz, Ryszard Smoothness in $\mathcal{L}(C(X), C(Y))$. (English summary) **98k:46030**

Jiménez Sevilla, M. (*with* Payá-Albert, Rafael) Norm attaining multilinear forms and polynomials on preduals of Lorentz sequence spaces. (English summary) **98k:46031**

John, Kamil *see* **Emmanuele, G., 98e:46017** *and* **98m:46024**

Kato, Mikio *see* **Takahashi, Yasuji, 98e:46020**

Kim, Beom Sool *see* **Cho, Chong-Man, 98c:46032**

Kraus, Jon (*with* Larson, David R.) Preannihilators, the operator approximation property and dual products. (English summary) **98f:46014**

Larson, David R. *see* **Kraus, Jon, 98f:46014**

Le Merdy, Christian A remark on the tensor product of two maximal operator spaces. (English summary) **98d:46016**

— The Schatten space S_4 is a Q-algebra. (English summary) **98e:46018**

Muhly, Paul S. (*with* Solel, Baruch) On the uniqueness of operator algebra structures. (English summary) **98m:46025**

Oja, Eve M-ideals of compact operators are separably determined. (English summary) **98k:46032**

Payá-Albert, Rafael *see* **Jiménez Sevilla, M., 98k:46031**

Pisier, Gilles Espaces de Banach quantiques: une introduction à la théorie des espaces d'opérateurs. (French summary) [Quantum Banach spaces: an introduction to the theory of operator spaces] **98e:46019**

— Dvoretzky's theorem for operator spaces. (English summary) **98d:46017**

Popa, Dumitru Pietsch integral operators defined on injective tensor products of spaces and applications. (English summary) **98j:46015**

Sanchez Perez, Enrique A. A symmetric tensor norm extending the Hilbert-Schmidt norm to the class of Banach spaces. (English summary) **98c:46033**

Solel, Baruch *see* **Muhly, Paul S., 98m:46025**

Takahashi, Yasuji (*with* Kato, Mikio) On random Clarkson inequalities. (English summary) **98e:46020**

Zhang, Chun Completely bounded Banach-Mazur distance. (English summary) **98e:46021**

Items with secondary classifications in 46B28

Alencar, Raymundo (*with* Floret, Klaus) Weak-strong continuity of multilinear mappings and the Pełczyński-Pitt theorem. (English summary) **98h:46045**

Aron, Richard M. (*with* Galindo, Pablo) Weakly compact multilinear mappings. (English summary) **98e:46051**
Beg, Ismat (*with* Popovici, Ioan Mircea; Danet, Rodica Mihaela) Decomposition of the space of regular operators. (English summary) **98k:47071**
Blasco, Oscar Vector-valued analytic functions of bounded mean oscillation and geometry of Banach spaces. **98h:46034**
Bu, Qing Ying *see* **Wu, Cong Xin**, **98h:47064**
Chen, Zi Li (*with* Wickstead, A. W.) Incompleteness of the linear span of the positive compact operators. (English summary) **98k:47072**
Chilin, Vladimir I. (*with* Dodds, P. G.; Sukochev, F. A.) The Kadec-Klee property in symmetric spaces of measurable operators. (English summary) **98c:46129**
Choi, Yun Sung Numerical radius of a holomorphic mapping. **98j:46044**
Chu, Cho-Ho On the weak topology in operator algebras. (English summary) (*see* **98d:54001**)
Csörgő, I. A representation theorem for the operator space $L(L_0^\infty(X); Z)$. **98d:46038**
Dai, Xingde (*with* Larson, David R.) Wandering vectors for unitary systems and orthogonal wavelets. (English summary) **98m:47067**
Danet, Rodica Mihaela *see* **Beg, Ismat; et al.**, **98k:47071**
Dilworth, S. J. (*with* Hsu, Yu-Ping) On a property of Kadec-Klee type for quasi-normed unitary matrix spaces. (English summary) **98a:46021**
Dodds, P. G. (*with* Sukochev, F. A.) RUC-decompositions in symmetric operator spaces. (English summary) **98m:46008**
— (*with* Dodds, T. K.; de Pagter, Ben; Sukochev, F. A.) Lipschitz continuity of the absolute value and Riesz projections in symmetric operator spaces. (English summary) **98g:46098**
— *see also* **Chilin, Vladimir I.; et al.**, **98c:46129**
Dodds, T. K. *see* **Dodds, P. G.; et al.**, **98g:46098**
Effros, Edward G. (*with* Winkler, Soren) Matrix convexity: operator analogues of the bipolar and Hahn-Banach theorems. (English summary) **98e:46066**
Erdos, J. A. Basis theory and operator algebras. (English summary) **98j:47097**
Floret, Klaus *see* **Alencar, Raymundo**, **98h:46045**
Fugarolas, M. A. Cotype constants and inequalities between summing and integral norms of finite rank operators. (English summary) **98c:47026**
Galaz-Fontes, Fernando Note on compact sets of compact operators on a reflexive and separable Banach space. (English summary) **98d:47092**
Galindo, Pablo *see* **Aron, Richard M.**, **98e:46051**
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Kirwan, Pádraig (*with* Ryan, Raymond A.) Extendibility of homogeneous polynomials on Banach spaces. (English summary) **98f:46042**
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Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) Polynomial interpolation of operators. (English summary) **98h:41042**
Maurey, Bernard *see* **Gowers, W. T.**, **98g:46018**
Molnár, Lajos Stability of the surjectivity of endomorphisms and isometries of $\mathcal{B}(H)$. (English summary) **98e:47055**
Muhly, Paul S. A finite-dimensional introduction to operator algebra. (English summary) **98h:46062**
Oertel, F. Operators with extension property and the principle of local reflexivity. (English summary) **98k:46015**
de Pagter, Ben *see* **Dodds, P. G.; et al.**, **98g:46098**
Paulsen, Vern I. Relative Yoneda cohomology for operator spaces: an overview. **98k:46125**
Pisier, Gilles A simple proof of a theorem of Kirchberg and related results on C^*-norms. (English summary) **98e:46076**
— Espaces d'opérateurs: une nouvelle dualité. (French summary) [Operator spaces: a new duality] **98h:46063**
Popovici, Ioan Mircea *see* **Beg, Ismat; et al.**, **98k:47071**
Queffelec, Hervé Norm of the inverse of a matrix; solution to a problem of Schäffer. (English and French summaries) **98g:47007**
Reinov, Oleg On non-nuclear operators with nuclear adjoints. (English and Estonian summaries) **98c:47027**
Ryan, Raymond A. *see* **Kirwan, Pádraig**, **98f:46042**
Shin, Dong-Yun On the three operator space structures of Hilbert spaces. (English summary) **98c:46124**
Skalyga, V. I. Analogues of Markov and Bernstein inequalities for polynomials in Banach spaces. (Russian. Russian summary) **98c:46087**
Sukochev, F. A. *see* **Chilin, Vladimir I.; et al.**, **98c:46129**; **Dodds, P. G.; et al.**, **98g:46098** *and* **98m:46008**
Sundaresan, Kondagunta Geometry of spaces of quadratic forms. (*see* **98i:00015**)
Ülger, Ali Subspaces and subalgebras of $K(H)$ whose duals have the Schur property. (English summary) **98g:47035**
Wenzel, Jörg Ideal norms associated with the UMD-property. (English summary) **98d:47099**
West, Graeme Applications of the minimum modulus function in operator algebras. (English summary) **98g:46092**
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Wu, Cong Xin (*with* Bu, Qing Ying) Operator spaces and characterizations of nuclearity. (English summary) **98h:47064**

46B40 Ordered normed spaces [see also 46A40, 46B42]

Items with secondary classifications in 46B40

Ahmad, Z. U. *see* **Gaur, A. K.**, **98h:46048**
Buskes, G. J. H. M. On extension of Riesz homomorphisms. II. **98a:47037**
Dăneț, Nicolae The modulus of some summing operators. (English summary) **98m:47055**
Gaur, A. K. (*with* Ahmad, Z. U.) Cones in Banach algebras. (English summary) **98h:46048**
Grobler, J. J. (*with* Reinecke, C. J.) On principal T-bands in a Banach lattice. (English summary) **98g:47030**
Reinecke, C. J. *see* **Grobler, J. J.**, **98g:47030**

46B42 Banach lattices [see also 46A40, 46B40]

Alpay, Ş. (*with* Turan, B.) On surjectivity of the Arens homomorphism. (English and Turkish summaries) **98m:46026**
Drewnowski, Lech (*with* Kamińska, Anna; Lin, Pei-Kee) On multipliers and L- and M-projections in Banach lattices and Köthe function spaces. **98c:46034**
Kamińska, Anna *see* **Drewnowski, Lech; et al.**, **98c:46034**
Lavrič, Boris A characterisation of Banach lattices with order continuous norm. (English and Serbo-Croatian summaries) **98g:46022**
Lin, Pei-Kee *see* **Drewnowski, Lech; et al.**, **98c:46034**
Turan, B. *see* **Alpay, Ş.**, **98m:46026**
Wnuk, Witold Remarks on a structure of Banach lattices. (English summary) **98d:46018**

Items with secondary classifications in 46B42

Chen, Zi Li (*with* Wickstead, A. W.) Incompleteness of the linear span of the positive compact operators. (English summary) **98k:47072**
Chung, Si-Kit A note on the dual of weak L^p. (English and Chinese summaries) **98k:46045**
Drewnowski, Lech Barrelled spaces with Boolean rings of projections. (English summary) **98m:46001**
Kang, Jeong Heung Complemented sublattices of wL_1 isomorphic to classical Banach lattices. (English summary) **98h:46028**
Lasserre, Jean B. A theorem of the alternative in Banach lattices. (English summary) **98h:47016**
Lotz, Heinrich P. (*with* Peck, N. Tenney) Sublattices of the Banach envelope of weak L^1. (English summary) **98c:46058**
Peck, N. Tenney *see* **Lotz, Heinrich P.**, **98c:46058**
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46B45 Banach sequence spaces [see also 46A45]

Ahmad, Z. U. (*with* Gaur, A. K.; Chishti, T. A.) On some new sequence spaces of invariant means. **98c:46035**
Azimi, Parviz Isomorphic classification of $X_{\alpha,p}$ spaces. (English summary) (*see* **98h:00035**)
Chen, Shutao (*with* Duan, Yanzheng) Block basis of sequence Orlicz spaces. (English and Chinese summaries) **98c:46036**
Chishti, T. A. *see* **Ahmad, Z. U.; et al.**, **98c:46035**
Cui, Yun An (*with* Wang, Ting Fu) Uniformly monotone coefficients in Orlicz sequence spaces and their applications. (Chinese. English and Chinese summaries)
— (*with* Hudzik, Henryk; Pluciennik, Ryszard) Banach-Saks property in some Banach sequence spaces. (English summary) **98c:46037a**
— (*with* Hudzik, Henryk; Pluciennik, Ryszard) Errata to the paper: "Banach-Saks property in some Banach sequence spaces". **98c:46037b**
— (*with* Hudzik, Henryk; Zhu, Hongwei) Maluta's coefficient in Musielak-Orlicz sequence spaces equipped with the Orlicz norm. (English summary) **98c:46038**
— Weakly convergent sequence coefficient in Köthe sequence spaces. (English summary) **98c:46039**
— *see also* **Wang, Dong**, **98e:46022** *and* **Wang, Ting Fu**
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Gaur, A. K. *see* **Ahmad, Z. U.; et al.**, **98c:46035**
Gorokhova, S. G. Intrinsic characterization of the space $c_0(A)$ in the class of Banach lattices. (Russian) **98b:46024**
Hao, Cuixia *see* **Wang, Bao Xiang; et al.**, **98f:46015**
Hudzik, Henryk *see* **Cui, Yun An; et al.**, **98c:46037a**; **98c:46037b** *and* **98c:46038**
Knaust, Helmut Some isomorphic preduals of l_1 which are isomorphic to c_0. (English summary) **98c:46040**
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Rao, Malempati Madhusudana (*with* Ren, Zhong Dao) Packing in Orlicz sequence spaces. (English summary) **98i:46016**
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Ruckle, William H. *see* **Saxon, Stephen A.**, **98c:46041**
Saxon, Stephen A. (*with* Ruckle, William H.) Reducing the classical multipliers l^∞, c_0 and bv_0. (English summary) **98c:46041**
Wang, Bao Xiang (*with* Wang, Ting Fu; Hao, Cuixia) On the WM property of Orlicz sequence spaces endowed with the Orlicz norm. (English summary) **98f:46015**
— *see also* **Wang, Ting Fu; et al.**, **98k:46033**
Wang, Dong (*with* Cui, Yun An) Strongly extreme points in Banach sequence spaces. (Chinese. English and Chinese summaries) **98c:46022**
Wang, Ting Fu (*with* Wang, Bao Xiang; Liang, Zhao) On weakly (weakly*) exposed points of Orlicz sequence spaces. (English summary) **98k:46033**
— (*with* Cui, Yun An) Weakly convergent sequence coefficients of Orlicz sequence spaces. (Chinese. English and Chinese summaries)
— *see also* **Wang, Bao Xiang; et al.**, **98f:46015** *and* **Cui, Yun An**
Zhang, Yun Feng The WKR and WLKR properties of Orlicz sequence spaces. (Chinese. English and Chinese summaries) **98k:46034**
Zhu, Hongwei *see* **Cui, Yun An; et al.**, **98c:46038**

Items with secondary classifications in 46B45

Breckner, Wolfgang W. (*with* Trif, Tiberiu; Varga, Csaba) Some applications of the condensation of the singularities of families of nonnegative functions. II. (English summary) **98j:47047**
Drewnowski, Lech (*with* Labuda, Iwo) Copies of c_0 and l_∞ in topological Riesz spaces. (English summary) **98k:46007**

Felton, Anthony J. (*with* Rogosinski, H. P.) Biorthogonality in the real sequence spaces l^p. (English summary) **98c:46042**
Fugarolas, M. A. Entropy ideals and matrix operators of Besov-type. **98c:47056**
Labuda, Iwo *see* **Drewnowski, Lech, 98k:46007**
Lewicki, Grzegorz On the uniqueness of minimal projections in spaces of the James type. (English summary) **98k:46026**
Rodríguez Salinas, Baltasar Subspaces with symmetric basis in the Orlicz space $l_F(I)$. (English summary) **98b:46015**
Rogosinski, H. P. *see* **Felton, Anthony J., 98c:46042**
Shi, Zhongrui Denting points and drop properties in Orlicz spaces equipped with Orlicz norm. (English summary) **98m:46041**
Suantai, S. Boundedness of superposition operators on E_r and F_r. (English summary) **98m:47111**
Trif, Tiberiu *see* **Breckner, Wolfgang W.; et al., 98j:47047**
Varga, Csaba *see* **Breckner, Wolfgang W.; et al., 98j:47047**

46B70 Interpolation between normed linear spaces [see also 46M35]

Items with secondary classifications in 46B70

Tikhonov, O. E. (*with* Veselova, L. V.) A Banach couple is determined by the collection of its interpolation spaces. (English summary) **98f:46062**
Veselova, L. V. *see* **Tikhonov, O. E., 98f:46062**

46B99 None of the above, but in this section

Cho, Yeol Je *see* **Kim, Seong Sik; et al., 98j:46016** *and* **98j:46017**
Kim, Seong Sik (*with* Cho, Yeol Je; Narang, T. D.) Some remarks on orthogonality and best approximation. **98j:46016**
— (*with* Cho, Yeol Je; White, Albert George, Jr.) 2-pre-Hilbertian 2-norms and Gateaux derivatives. (English summary) **98j:46017**
Lee, Sang Han Reflexivity of normed almost linear spaces. (English summary) **98e:46023**
Lin, Gui Hua Property (u) and its lifting on $l_p(X_n)$. (Chinese. English and Chinese summaries) **98b:46025**
Narang, T. D. *see* **Kim, Seong Sik; et al., 98j:46016**
Wang, Chonghu On the weak property of Lebesgue of Banach spaces. (English and Chinese summaries) **98b:46026**
White, Albert George, Jr. *see* **Kim, Seong Sik; et al., 98j:46017**

Items with secondary classifications in 46B99

Antonevich, Anatolii B. (*with* Buraczewski, Adam; Radyno, Ya.) On closability of nonclosable operators. (English summary) **98h:47006**
Benítez, Carlos (*with* Fernández García-Hierro, Manuel; Soriano, María L.) Suitable norms for simultaneous approximation. **98b:41019**
Börger, Reinhard (*with* Kemper, Ralf) A cogenerator for preseparated superconvex spaces. (English summary) **98g:46108**
Buraczewski, Adam *see* **Antonevich, Anatolii B.; et al., 98h:47006**
Carl, Bernd Metric entropy of convex hulls in Hilbert spaces. (English summary) **98g:46023**
Castillo, Jesús M. F. (*with* González, Manuel; Sánchez Fernández, Fernando) Oscillation of weakly null and Banach-Saks sequences. (Italian summary) **98k:54025**
Chalmers, Bruce L. (*with* Prophet, M. P.) Minimal shape-preserving projections onto Π_n. (English summary) **98j:41014**
Cho, Yeol Je *see* **Kim, Seong Sik, 98a:46011**
Dow, Alan (*with* Junnila, H.; Pelant, Jan) Weak covering properties of weak topologies. **98i:54010**
Fernández García-Hierro, Manuel *see* **Benítez, Carlos; et al., 98b:41019**
González, Manuel *see* **Castillo, Jesús M. F.; et al., 98k:54025**
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Kemper, Ralf *see* **Börger, Reinhard, 98g:46108**
Kim, Seong Sik (*with* Cho, Yeol Je) Strict convexity in linear n-normed spaces. **98a:46011**
Li, Gui Lan *see* **Wang, Run Jie; et al., 98a:46014**
Pelant, Jan *see* **Dow, Alan; et al., 98i:54010**
Pérez Acosta, Francisco On certain Banach spaces in connection with interpolation theory. (English summary) **98k:41009**
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Radyno, Ya. *see* **Antonevich, Anatolii B.; et al., 98h:47006**
Ren, Guanshen Non-Archimedean normed linear spaces. (English summary) **98h:46084**
Sánchez Fernández, Fernando *see* **Castillo, Jesús M. F.; et al., 98k:54025**
Schöpf, Peter Solutions of $\|f(\xi+\eta)\| = \|f(\xi)+f(\eta)\|$. (English summary) **98i:39007**
Simons, Stephen Sum theorems for monotone operators and convex functions. (English summary) **98j:47119**
Soriano, María L. *see* **Benítez, Carlos; et al., 98b:41019**
Szabó, György[1] Pythagorean orthogonality and additive mappings. (English summary) **98i:39008**
Wang, Run Jie (*with* Zhang, De Xin; Li, Gui Lan) A uniform boundedness theorem for a family of closed convex processes on an incomplete normed space. (Chinese. English and Chinese summaries) **98a:46014**
Zhang, De Xin *see* **Wang, Run Jie; et al., 98a:46014**

46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx.}

46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)

Amir-Moez, Ali R. Quadratic norms and inner products. (*see* **98i:00015**)
Avanissian, V. Norme minimale sur le compléxifié d'un espace de Hilbert réel. (English summary) [Minimal norm on the complexification of a real Hilbert space] **98i:46017**
Balaganskiĭ, V. S. Some remarks on relative Chebyshev centers. (English summary) **98e:46024**
Carl, Bernd Metric entropy of convex hulls in Hilbert spaces. (English summary) **98g:46023**
Casazza, Peter G. Characterizing Hilbert space frames with the subframe property. **98g:46024**
Dragomir, Sever Silvestru (*with* Mond, Bertram) On the superadditivity and monotonicity of Schwarz's inequality in inner product spaces. (English and Macedonian summaries) **98f:46016**
— (*with* Mond, Bertram) Some inequalities for Fourier coefficients in inner product spaces. (English summary) **98k:46035**
— (*with* Mond, Bertram; Páles, Zsolt) On a superadditivity property of Gram's determinant. (English summary) **98j:46018**
Drużkowski, Ludwik M. (*with* Płoski, Arkadiusz) On complexified norm. (English summary) **98e:46025**
Favier, S. J. (*with* Zalik, R. A.) Frames and Riesz bases: a short survey. **98e:46026**
Felton, Anthony J. (*with* Rogosinski, H. P.) Biorthogonality in the real sequence spaces l^p. (English summary) **98c:46042**
Gao, Ji An application of elementary geometry in functional analysis. **98a:46031**
Jaffard, Stéphane (*with* Young, Robert M.) A representation theorem for Schauder bases in Hilbert space. (English summary) **98d:46019**
Kim, Hong Oh (*with* Lim, Jae Kun) New characterizations of Riesz bases. (English summary) **98d:46020**
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Maltese, George Some remarks on the Riesz representation theorem in Hilbert space. (Italian summary) **98i:46018**
Mond, Bertram *see* **Dragomir, Sever Silvestru, 98f:46016; 98j:46018** *and* **98k:46035**
Páles, Zsolt *see* **Dragomir, Sever Silvestru; et al., 98j:46018**
Płoski, Arkadiusz *see* **Drużkowski, Ludwik M., 98e:46025**
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Zalik, R. A. *see* **Favier, S. J., 98e:46026**

Items with secondary classifications in 46C05

Alsina, Claudi (*with* Schweizer, Berthold; Sempi, Carlo; Sklar, Abe) On the definition of a probabilistic inner product space. (English and Italian summaries) **98j:46085**
Bagarello, F. Some results about frames. (English summary) **98k:46016**
Baron, Karol (*with* Rätz, Jürg) On orthogonally additive mappings on inner product spaces. (English summary) **98f:39019**
Cazassa, Peter G. (*with* Christensen, Ole) Perturbation of operators and applications to frame theory. (English summary) **98j:47028**
Christensen, Ole *see* **Cazassa, Peter G., 98j:47028**
Deutsch, Frank (*with* Li, Wu[3]; Ward, Joseph D.) A dual approach to constrained interpolation from a convex subset of Hilbert space. (English summary) **98m:41050**
Holub, James R. The equivalence of frames. (English summary) **98c:46014**
Karlov, M. I. Approximative properties of compact C^2-manifolds in Hilbert spaces. (English summary) **98a:41048**
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46C15 Characterizations of Hilbert spaces

Dvurečenskij, Anatolij A measure-theoretic characterization of inner product spaces. (English summary) **98f:46017**
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— On inner product spaces. I. (English summary) **98g:46025**
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Rätz, Jürg Orthogonally additive mappings on free inner product Z-modules. (English summary) **98i:20056**
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46C20 Spaces with indefinite inner product

Duma, Adrian Zeeman's theorem in nondecomposable spaces. (English summary) **98j:46019**

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Hofmann, Gerald The Hilbert space structure condition for quantum field theories with indefinite metric and transformations with linear functionals. (English summary) **98m:81088**
Li, Xun (*with* Liu, Guo Jing) Normal matrices in Minkowski inner product spaces. I. (Chinese. English and Chinese summaries)
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46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)

Chen, Yu Qing *see* **Zhang, Shi Sheng; et al., 98c:46043**
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Dragomir, Sever Silvestru (*with* Koliha, J. J.) The mapping $\gamma_{x,y}$ in normed linear spaces and applications. **98c:46020**
— (*with* Koliha, J. J.) Mappings Φ^p in normed linear spaces and new characterizations of Birkhoff orthogonality, smoothness and best approximants. (English summary) **98c:46019**
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46C99 None of the above, but in this section

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46Exx Linear function spaces and their duals [see also 30H05, 32E25, 46F05; for function algebras, see 46J10]

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(Hudzik, Henryk) *see* **Conference: Function Spaces, 98h:46001**
(Musielak, Julian) *see* **Conference: Function Spaces, 98h:46001**
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46E05 Lattices of continuous, differentiable or analytic functions

Dellacherie, Claude Une version non linéaire du théorème de représentation de Riesz. (English and French summaries) [A nonlinear version of the Riesz representation theorem] **98d:46021**

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Biyanov, Andrey Y. Characterization of the duals of lattices of continuous functions with respect to disjointness preserving groups. (English summary) **98f:47045**
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Jelínek, Jiří *see* **Čížek, Jiří, 98a:46050**

46E10 Topological linear spaces of continuous, differentiable or analytic functions

Aizenberg, L. A. Duality in complex analysis. **98k:46036**
Albanese, Angela A. (*with* Moscatelli, V. B.) Complemented subspaces of sums and products of copies of $L^1[0,1]$. (English summary) **98c:46045**
Banakh, T. O. (*with* Cauty, Robert) Universalité forte pour les sous-ensembles totalement bornés. Applications aux espaces $C_p(X)$. [Strong universality for totally bounded subsets. Applications to the spaces $C_p(X)$] **98c:46046**
Beckenstein, Edward (*with* Narici, Lawrence) Detaching maps between spaces of continuous functions. (English and Italian summaries) **98b:46027**
Bernard, Alain (*with* Sidney, Stuart J.) Some ultrabornological normed function spaces. (English summary) **98j:46020**
Cauty, Robert *see* **Banakh, T. O., 98c:46046**
Claire, Robert Classes de fonctions indéfiniment différentiables. [Classes of infinitely differentiable functions] **98e:46027**
Dinh Huy Hoang (*with* Thai Thuan Quang) The inheritance of the linear topological invariant (DN). (English summary) **98c:46047**
Dragilev, M. M. On spaces of generalized Dirichlet series. (English and Turkish summaries) **98a:46032**
Hart, Joan (*with* Kunen, Kenneth) Locally constant functions. (English summary) **98b:46028**
Horowitz, C. (*with* Pinchuk, B.) A survey of recent results in $A^{-\infty}$ and $A^{-\infty}$. **98j:46021**
Krasichkov-Ternovskiĭ, I. F. A fundamental principle for invariant subspaces of analytic functions. I. (Russian. Russian summary) **98e:46028**
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Marciszewski, Witold A function space $C_p(X)$ not linearly homeomorphic to $C_p(X) \times \mathbf{R}$. (English summary) **98h:46018**
Mattila, Päivi (*with* Saksman, Eero; Taskinen, Jari) Weighted spaces of harmonic and holomorphic functions: sequence space representations and projective descriptions. (English summary) **98c:46048**
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Nakazi, Takahiko (*with* Yamada, Masahiro) Riesz's functions in weighted Hardy and Bergman spaces. (English summary) **98c:46049**
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Schmets, Jean (*with* Valdivia, Manuel) On the existence of continuous linear analytic extension maps for Whitney jets. (English summary) **98m:46028**
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Aguayo, José (*with* De Grande-De Kimpe, Nicole; Navarro, Samuel) Strict locally convex topologies on $BC(X, \mathbf{K})$. **98i:46076**
Albanese, Angela A. (*with* Metafune, Giorgio; Moscatelli, V. B.) On the spaces $C^k(\mathbf{R}) \cap L^p(\mathbf{R})$. (English summary) **98c:46060**
Aversa, V. (*with* Wilczynski, Władysław) Classes of continuous functions. (English summary) **98a:26004**
Beloyiannis, A. *see* **Katsaras, A. K., 98e:46094** *and* **98h:46083**
Carro, María J. (*with* Soria, Javier) Transference theory on Hardy and Sobolev spaces. (English summary) **98m:42028**
Chen, Hua[1] (*with* Rodino, Luigi) General theory of PDE and Gevrey classes. **98e:35004**
Das, Asok Kumar (*with* Mazumdar, A. C.) On the space of entire functions of several variables over a non-Archimedean field with coefficients in a non-Archimedean Banach algebra. **98c:46164**
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Díaz Alcaide, Juan Carlos On non-primary Fréchet Schwartz spaces. (English summary) **98j:46001**
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Essén, Matts (*with* Xiao, Jie[1]) Some results on Q_p spaces, $0 < p < 1$. (English summary) **98d:46024**
Gill, Tepper L. (*with* Zachary, Woodford W.) A class of weighted-mean Banach spaces. (English summary) **98b:46051**
Hirshberg, A. (*with* Shortt, R. M.) A version of Strassen's theorem for vector-valued measures. (English summary) **98i:28014**
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Wang, Wei Asymptotic properties of weighted Bers spaces $\mathrm{QA}^\alpha(\Omega)$ on hyperbolic regions. (Chinese. English and Chinese summaries) **98i:30051**
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Araujo, Jesús (*with* Font, Juan J.; Hernández, Salvador) A note on Holsztyński's theorem. (English summary) **98g:46028**
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Blatter, Jörg (*with* König, Heinz J. E.) A note on Irving Glicksberg's pseudocompactness papers. (English summary) **98m:46029**
Boardman, John P. Quasi-measures on completely regular spaces. (English summary) **98e:46031**
Briem, Eggert (*with* Jarosz, Krzysztof) Operating functions for Banach function spaces. (English summary) **98i:46019**
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Essén, Matts (*with* Xiao, Jie[1]) Some results on Q_p spaces, $0 < p < 1$. (English summary) **98d:46024**
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Girela, Daniel Mean Lipschitz spaces and bounded mean oscillation. **98h:46019**
Hanin, Leonid G. Duality for general Lipschitz classes and applications. **98d:46025**
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Lu, Shanzhen (*with* Yang, Dachun; Zhou, Zusheng) Some multiplier theorems for non-isotropic $H^p(\mathbf{R}^n)$. (English and Chinese summaries) **98m:46030**
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Araujo, Jesús (*with* Martinez-Maurica, J.) Isometries between non-Archimedean spaces of continuous functions. (English summary) **98h:46082**
— Isometries in spaces of non-Archimedean continuous functions. **98d:46084**
Arazy, Jonathan Boundedness and compactness of generalized Hankel operators on bounded symmetric domains. (English summary) **98c:47032**
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Krantz, Steven G. (*with* Li, Song-Ying) Area integral characterizations of functions in Hardy spaces on domains in $\mathbf{C}^n$. (English summary) **98m:32003**
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Marcus, Moshe (*with* Mizel, Victor J.; Pinchover, Yehuda) On the best constant for Hardy's inequality in $\mathbf{R}^n$. (English summary) **98k:26035**
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Smith, Wayne Stewart (*with* Yang, Li Ming) Composition operators that improve integrability on weighted Bergman spaces. (English summary) **98d:47070**
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Zhou, Guang Cai (*with* Zheng, Wei Xing) Equivalent characterizations of Hardy spaces. (Chinese. English and Chinese summaries) **98b:43007**
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46E20 Hilbert spaces of continuous, differentiable or analytic functions

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Fisher, Stephen D. (*with* Micchelli, Charles A.) Minimal norm interpolation with nonnegative real part on multiply connected planar domains. **98c:46052**
Kisil, Vladimir V. Construction of integral representations for spaces of analytic functions. (Russian) **98d:46027**
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Napalkov, V. V., Jr. (*with* Popënov, S. V.) On the Laplace transform of functionals in a weighted Bergman space of entire functions in $\mathbf{C}^n$. (Russian) **98c:46053**
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Andersson, Mats Erik Integral means on Bergman spaces. (English summary) **98f:30044**
Borichev, A. A. (*with* Hedenmalm, Håkan) Harmonic functions of maximal growth: invertibility and cyclicity in Bergman spaces. (English summary) **98a:30066**
Chang, Der-Chen (*with* Li, Bao Qin) Sobolev and Lipschitz estimates for weighted Bergman projections. (English summary) **98i:32035**
Chung, Young-Bok The Szegő kernel function of a multiply connected domain. (English summary) **98d:30013**
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Cotlar, Mischa (*with* Sadosky, Cora) A polydisk version of Beurling's characterization for invariant subspaces of finite multi-codimension. (English summary) **98k:30047**
Ferguson, Sarah H. Backward shift invariant operator ranges. (English summary) **98j:47017**
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Hurst, Paul R. Relating composition operators on different weighted Hardy spaces. (English summary) **98c:47040**
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Wang, James Li-Ming (*with* Wu, Zhijian) Images of Hankel operators. (English summary) **98m:47037**
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Zheng, Dechao Toeplitz operators and Hankel operators on the Hardy space of the unit sphere. (English summary) **98m:47038**
— Commuting Toeplitz operators with pluriharmonic symbols. (English summary) **98i:47027**

46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces)

Cnops, Jan Reproducing kernels of spaces of vector valued monogenics. (English summary) **98b:46032**
Golinskiĭ, L. B. (*with* Mikhailova, Irina V.) Hilbert spaces of entire functions as a J theory subject [Preprint No. 28-80, Inst. Low Temp. Phys. Engrg., Khar'kov, 1980]. (English summary) **98m:46031**
Hansbo, Jonas Reproducing kernels and contractive divisors in Bergman spaces. (English and Russian summaries) **98h:46024**
Kajiwara, Joji Reproducing kernels for abstract Wiener spaces. **98e:46033**
Li, Xian-Jin On reproducing kernel Hilbert spaces of polynomials. (English summary) **98g:46031**
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Mikhailova, Irina V. *see* **Golinskiĭ, L. B., 98m:46031**
Monastyrski, Marcin (*with* Pasternak-Winiarski, Zbigniew) Maps on complex manifolds into Grassmann spaces defined by reproducing kernels of Bergman type. **98i:46021**
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— *see also* **Monastyrski, Marcin, 98i:46021**
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— Representations of inverse functions. (English summary) **98b:46033**
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Arova, Z. D. The functional model of a j-unitary node with a given j-inner characteristic matrix function. (English summary) **98d:47033**
Engliš, Miroslav (*with* Peetre, Jaak) On the correspondence principle for the quantized annulus. **98g:58066**
Francsics, Gábor (*with* Hanges, Nicholas) Asymptotic behavior of the Bergman kernel and hypergeometric functions. (English summary) **98h:32040**
Gu, Caixing (*with* Zheng, Dechao) The semi-commutator of Toeplitz operators on the bidisc. (English summary) **98g:47022**
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Kajiwara, Joji (*with* Li, Lin) Reproducing kernels for infinite-dimensional domains. (English summary) **98i:46036**
Kamimoto, Joe Singularities of the Bergman kernel for certain weakly pseudoconvex domains. **98i:32039**
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Wu, Bo Ying Approximate reproduction of functions in the space $W_2^2(D)$. (Chinese. English and Chinese summaries) **98a:46047**
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— A class of operators associated with reproducing kernels. (English summary) **98f:47036**

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Kurilić, Miloš S. The space of functions with a limit at each point. (English summary) **98e:46034**
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Molnár, Lajos On rings of differentiable functions. (English summary) **98e:46035**
Mulvey, Christopher J. *see* **Banaschewski, Bernhard, 98d:46028**
Villena Muñoz, Armando R. Operators determining the complete norm topology of $C(K)$. (English summary) **98h:46026**
Zakharov, Valeriĭ Konstantinovich Connections between the Riemann extension and the classical quotient ring and between the Semadeni preimage and the sequential absolute. (Russian) **98k:46044**

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Alspach, Dale E. Operators on $C(\omega^\alpha)$ which do not preserve $C(\omega^\alpha)$. (English summary) **98c:46016**
Araujo, Jesús (*with* Beckenstein, Edward; Narici, Lawrence) Biseparating maps and rings of continuous functions. (English summary) **98d:54035**
— (*with* Font, Juan J.; Hernández, Salvador) A note on Holsztyński's theorem. (English summary) **98g:46028**
Beckenstein, Edward *see* **Araujo, Jesús; et al., 98d:54035**
Byun, Linda H. (*with* Redlin, Lothar; Watson, Saleem) Local bounded inversion in rings of continuous functions. (English summary) **98j:54032**
Chattopadhyay, K. C. *see* **Acharyya, S. K.; et al., 98a:54012**
Das, Mrinal Kanti A note on the centre of $A(K)$. (English summary)
Fedorchuk, V. V. Completions of spaces of functions on compact spaces with respect to the Hausdorff uniformity. (English summary) **98j:54025**
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Galindo, Pablo (*with* Lindström, Mikael) Gleason parts in uniform Fréchet algebras. (English summary) **98k:46080**
Garrido, I. (*with* Montalvo Durán, Francisco) Algebraic properties of the uniform closure of spaces of continuous functions. (English summary) **98g:54025**
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Kundu, Subiman (*with* Raha, A. B.) The bounded-open topology and its relatives. (English and Italian summaries) **98a:54011**
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Lešnjak, Gorazd (*with* Šemrl, Peter) Continuous multiplicative mappings on $C(X)$. (English summary) **98c:46102**
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Requejo Fernández, Batildo A characterization of the topology of compact convergence on $\mathscr{C}(X)$. (English summary) **98c:46103**
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46E27 Spaces of measures [see also 28A33, 46Gxx]

Sultan, A. Some topological results on sets of measures defined on the structure space of Banach algebras. (English summary) **98d:46029**
Zhang, Xiao Dong[3] On weak compactness in spaces of measures. (English summary) **98d:46030**

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Hungerbühler, Norbert A refinement of Ball's theorem on Young measures. (English summary)
Lasserre, Jean B. *see* **Hernández-Lerma, Onésimo**

46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)

Amrani, Allal (*with* Castaing, Charles) Weak compactness in Pettis integration. (English summary) **98f:46021**
Asekritova, Irina U. (*with* Kruglyak, N. Ya.; Maligranda, Lech; Persson, Lars-Erik) Distribution and rearrangement estimates of the maximal function and interpolation. (English summary) **98g:46032**
Astashkin, S. V. On the multiplier of a symmetric space with respect to a tensor product. (Russian) **98f:46022**
Atzmon, Aharon (*with* Olevskiĭ, A. M.) Completeness of integer translates in function spaces on $\mathbf{R}$. (English summary) **98a:46035**
Bajracharya, P. M. The continuity with respect to a general displacement in the Orlicz and the Orlicz-Sobolev spaces. (English summary) **98d:46031**
Buldygin, V. V. (*with* Shurenkova, A. V.) On a criterion of compactness in the space L_p. (English summary) **98c:46055**
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Cavaliere, Paola (*with* Manzo, Giuliana; Vitolo, Antonio) Spaces of Morrey type and BMO spaces in unbounded domains of $\mathbf{R}^n$. (English and Italian summaries) **98f:46023**
Chang, Kuei-Fang A wavelet-like unconditional basis. (English summary) **98g:46033**
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— A note on the dual of weak L^p. (English and Chinese summaries) **98k:46045**
Curbera, Guillermo P. A note on function spaces generated by Rademacher series. (English summary) **98e:46036**
Ding, Guanggui Small into isomorphisms on L_∞ spaces. (English summary) **98c:46057**
Durán Guardeño, Antonio J. (*with* Lopez-Rodriguez, Pedro) The $\mathscr{L}^p$ space of a positive definite matrix of measures and density of matrix polynomials in $\mathscr{L}^1$. (English summary) **98i:46022**
Erzakova, N. A. Compactness with respect to a measure, and a measure of noncompactness. (Russian. Russian summary) **98g:46034**
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Franciosi, Michelangelo A condition implying boundedness and VMO for a function f. (English summary) **98a:46036**
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Geiss, Stefan BMO_φ-spaces and applications to extrapolation theory. (English summary) **98a:46037**

Gotoh, Yasuhiro On a localization theorem for BMO_φ on general domains. (English summary) **98e:46037**

Helmer, D. A general diagonal process and compactness in spaces of measurable functions. (English summary) **98b:46034**

Hudzik, Henryk (*with* Kamińska, Anna; Mastyło, Mieczysław) Local geometry of $L^1 \cap L^\infty$ and $L^1 + L^\infty$. (English summary) **98a:46038**

— (*with* Kamińska, Anna; Mastyło, Mieczysław) On geometric properties of Orlicz-Lorentz spaces. (English summary) **98d:46032**

— (*with* Pallaschke, Diethard) On some convexity properties of Orlicz sequence spaces equipped with the Luxemburg norm. (English summary) **98f:46024**

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Krbec, Miroslav (*with* Lang, Jan) Imbeddings between weighted Orlicz-Lorentz spaces. (English summary) **98d:46033**

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Kuzin-Aleksinskiĭ, S. A. (*with* Semënov, E. M.; Franchetti, Carlo) Estimates for the norms of projections onto hyperplanes in rearrangement-invariant spaces. (Russian) **98f:46025**

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Lebedev, A. A. On a minimal convex set in L^1_+ with a fixed restriction to L^∞_+. (Russian. Russian summary) **98e:46038**

Leung, Denny H. Purely non-atomic weak L^p spaces. (English summary) **98a:46039**

Lewicki, Grzegorz A characterization of Orlicz spaces isometric to L_p-spaces. (English summary) **98m:46035**

Lin, Pei-Kee (*with* Sun, Huiying) Normal structure of Lorentz-Orlicz spaces. (English summary) **98j:46024**

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Lotz, Heinrich P. (*with* Peck, N. Tenney) Sublattices of the Banach envelope of weak L^1. (English summary) **98c:46058**

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Matkowski, Janusz (*with* Rätz, Jürg) Equality in Minkowski inequality and a characterization of L^p-norm. **98g:46036**

Meskhi, A. N. Two-weight inequalities for potentials on the Lorentz spaces defined on homogeneous groups.

Minkin, A. M. Projection method and unconditional bases. (English, Russian and Ukrainian summaries) **98h:46029**

Miyakawa, Tetsuro Hardy spaces of solenoidal vector fields, with applications to the Navier-Stokes equations. **98i:46024**

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Ha Huy Bang A remark on differential operators of infinite order. (English summary) **98c:46077**
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Jelínek, Jiří *see* **Čížek, Jiří, 98a:46050**
Kananthai, Amnuay On the distribution related to the ultra-hyperbolic equations. (English summary) **98h:46038**
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Khapalyuk, A. P. A new definition of the Dirac δ-function. (Russian. English and Russian summaries) **98d:46041**
Kiliçman, Adem (*with* Fisher, Brian; Pehlivan, Serpil) On the neutrix convolution product $\ln x_- \boxdot \ln x_+$. (English summary) **98c:46078**
— *see also* **Fisher, Brian, 98c:46076** *and* **98j:46036**
McBride, Adam C. (*with* Rubin, Boris) Continuity and invertibility of distributional multidimensional fractional integrals. (English summary) **98g:46049**
Neagu, Mihai About the homogeneous distribution. (English summary)
— A homogeneous equation in distributions. (English summary)
Nikolskiĭ, Mikhail S. Methods of factorization applicable to the solution of convolution equations. (English summary) **98g:46050**
Özçag, Emin (*with* Kansu, Hacer) A result of neutrix convolution of distributions. (English summary) **98k:46068**
Pehlivan, Serpil *see* **Kiliçman, Adem; et al., 98c:46078**
Pilipović, Stevan (*with* Stanković, B.) Properties of ultradistributions having the S-asymptotics. (English summary) **98a:46051**
— (*with* Stojanović, Mirjana) On the behaviour of Colombeau's generalized functions at a point: applications to semilinear systems. (English summary) **98h:46039**
— Microlocal analysis of ultradistributions. (English summary) **98i:46038**
Quddus, M. A. Complete primitive of the zero functional on test function spaces of type $K\{M_p\}$. (English summary) **98b:46054**
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Stanković, B. *see* **Pilipović, Stevan, 98a:46051**
Stojanović, Mirjana On the convolution equations over the quarter-plane. (English summary) **98g:46051**
— *see also* **Pilipović, Stevan, 98h:46039**
Ulate, Carlos M. (*with* Estrada, Ricardo) Expansion of distributional kernels of the type $f(\lambda \mathbf{x}, \mathbf{x})$, as $\lambda \to \infty$. **98b:46055**
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Alimov, Sh. A. (*with* Rakhimov, Abdumalik A.) On the localization of spectral expansions of distributions. (Russian. Russian summary) **98a:47051**

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Balasin, Herbert Geodesics for impulsive gravitational waves and the multiplication of distributions. (English summary) **98a:83046**
Boiti, M. (*with* Pempinelli, F.; Pogrebkov, A. K.) Spectral theory of solitons on a generic background for the KPI equation. (English summary) **98g:35175**
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Cho, Nhansook On a martingale problem and a relaxed control problem with respect to SDE. **98c:60049**
Chung, Soon-Yeong Uniqueness in the Cauchy problem for the heat equation. (English summary) (*see* **98b:00027**)
Dapić, N. (*with* Pilipović, Stevan) Colombeau's generalized functions on a manifold. (English summary) **98k:46065**
Derr, V. Ya. (*with* Dizendorf, K. I.) On differential equations in C-generalized functions. (Russian) **98d:34013**
Dizendorf, K. I. *see* **Derr, V. Ya., 98d:34013**
Duddeck, F. M. E. Fourier transform in bounded domains. (English and Italian summaries) (*see* **98h:73004**)
Elbert, Árpád (*with* Kusano, Takaši; Tanigawa, Tomoyuki) An oscillatory half-linear differential equation. (English summary) **98m:34071**
Fegan, H. D. Regularity of convolution operators. (English summary) **98g:22007**
Folland, Gerald B. Fundamental solutions for the wave operator. **98d:35124**
Kananthai, Amnuay On the solutions of the n-dimensional diamond operator. (English summary) **98i:35133**
Kasman, Alex Orthogonal polynomials and the finite Toda lattice. (English summary) **98b:33022**
Koh, E. L. (*with* Ren, Gong) On the solution of the functional equation $f(x+y)+g(xy)=h(x)+k(y)$. (English summary) **98f:39018**
Kunstmann, Peer C. Stationary dense operators and generation of non-dense distribution semigroups. (English summary) **98c:47051**
Kusano, Takaši *see* **Elbert, Árpád; et al., 98m:34071**
Langenbruch, Michael Continuation of Gevrey regularity for solutions of partial differential operators. **98e:35025**
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Meyer, Thomas Surjectivity of convolution operators on spaces of ultradifferentiable functions of Roumieu type. (English summary) **98e:46045**
Nedeljkov, Marko (*with* Pilipović, Stevan) A note on a semilinear hyperbolic system with generalized functions as coefficients. **98k:35119**
— (*with* Pilipović, Stevan) Hypoelliptic differential operators with generalized constant coefficients. (English summary) **98m:35028**
Nessibi, M. M. Distributions presque-périodiques et formule de Poisson généralisée associés à un opérateur différentiel singulier sur $(0,+\infty)$. (English and French summaries) [Almost periodic distributions and generalized Poisson formula associated with a singular differential operator on $(0,+\infty)$] **98g:42018**
Okada, Jun-ichi The existence and the continuation of holomorphic solutions for convolution equations in a half-space in $\mathbf{C}^n$. (English summary) **98m:32005**
Okada, Yasunori Solvability and propagation of singularities for some class of microdifferential equations in the spaces of micro-distributions. (English summary) **98f:35007**
Omolo-Ongati, N. (*with* Rosinger, E. E.) Stability of Lie groups of the perturbed nonlinear wave equation $u_{tt}+\varepsilon u_t=[f(x,u)u_x]_x$. (English summary) **98h:35008**
Othman, Sadoon I. Adjoint families in topological vector spaces. (English summary) **98b:47015**
Park, Young Sik Continuity of the operators on the spaces $\mathscr{D}_p$ and the dual spaces $\mathscr{D}'_p$. **98b:47063**
Pempinelli, F. *see* **Boiti, M.; et al., 98g:35175**
Petukhov, A. P. Multiscale analysis and wavelet decompositions of spaces of periodic distributions. (Russian)
Pilipović, Stevan Linear equations with singular coefficients in the frame of Colombeau's generalized functions. (English summary) (*see* **98b:00031**)
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Pogrebkov, A. K. *see* **Boiti, M.; et al., 98g:35175**
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Ren, Gong *see* **Koh, E. L., 98f:39018**
Rosinger, E. E. *see* **Omolo-Ongati, N., 98h:35008**
Runst, Thomas (*with* Sickel, Winfried) ★ Sobolev spaces of fractional order, Nemytskij operators, and nonlinear partial differential equations. (English summary) **98a:47071**
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Sickel, Winfried *see* **Runst, Thomas, 98a:47071**
Stanković, B. Regularly varying generalized functions. (English summary)
Steinbauer, Roland The ultrarelativistic Reissner-Nordstrøm field in the Colombeau algebra. (English summary) **98f:83017**
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Sztaba, Urszula The Borel formula for integrable distributions. (English summary) **98m:44009**
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Tanigawa, Tomoyuki *see* **Elbert, Árpád; et al., 98m:34071**
Teofanov, Nenad *see* **Takači, Arpad, (98k:00020)**
Tomikawa, Takamitu Solvability and unsolvability of partial differential equations in terms of Colombeau hyperfunctions. (Japanese) (*see* **98f:35006**)
Wang, Sheng Wang Quasi-distribution semigroups and integrated semigroups. (English summary) **98d:47088**
Yoshikawa, Atsushi Mean values and mean-convolution products. **98k:42007**

46F12 Integral transforms in distribution spaces [see also 42–XX, 44–XX]

Banerji, P. K. (*with* Gehlot, Kuldeep S.; Saĭgo, Megumi) Stieltjes transform of a class of generalized functions. (English summary) **98h:46040**
Betancor, Jorge J. (*with* Marrero, I.) McKennon-type spaces for the Hankel transformation. (English summary) **98b:46056**
— (*with* Rodríguez-Mesa, Lourdes) Hankel convolution on distribution spaces with exponential growth. (English summary) **98e:46047**
— A new characterization of the bounded operators commuting with Hankel translation. (English summary) **98m:46055**
— (*with* Marrero, I.) Convolution operators on Kucera-type spaces for the Hankel transformation. **98g:46052**
— (*with* Rodríguez-Mesa, Lourdes) The K_μ-transformation on McBride's spaces of generalized functions. (English summary) **98f:46037**
— (*with* Rodríguez-Mesa, Lourdes) Pointwise convergence and a new inversion theorem for Hankel transforms. (English summary) **98f:46038**
— (*with* Rodríguez-Mesa, Lourdes) Hankel transformation of Colombeau type tempered generalized functions. (English summary) **98m:46056**
Gehlot, Kuldeep S. *see* **Banerji, P. K.; et al., 98h:46040**
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Ha Huy Bang Nonconvex cases of the Paley-Wiener-Schwartz theorem. (Russian) **98j:46037**
— Spectrum of functions in Orlicz spaces. (English summary) **98g:46053**
Malgonde, S. P. A representation of generalized Stieltjes transformable generalized functions. (English summary)
Marrero, I. *see* **Betancor, Jorge J., 98b:46056** *and* **98g:46052**
More, S. V. *see* **Panchal, S. K., 98b:46057**
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Pandey, J. N. The Hilbert transform of periodic distributions. (English summary) **98f:46039**
Poulkou, Anthippi Some results on the asymptotic behaviour of certain weak functions. (English summary) **98d:46042**
Raina, R. K. (*with* Saĭgo, Megumi) On inter-connection properties associated with H-transform and certain fractional integrals on spaces of generalized functions. (English summary) **98k:46069**
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Saĭgo, Megumi *see* **Banerji, P. K.; et al., 98h:46040** *and* **Raina, R. K., 98k:46069**
Saxena, Ram Kishore (*with* Gupta, Neelmani) Some characterizations of the $\overline{H}$-transform for distributions. (English summary)

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Banerji, P. K. (*with* Sinha, Deepali) Asymptotic expansion of an integral transform of generalized function. (English summary) **98f:44001**
Betancor, Jorge J. (*with* Jerez Diaz, C.) Convolution Watson integral transformations in spaces of generalized functions. (English summary) **98j:44002**
Ehrenpreis, Leon The role of Paley-Wiener theory in partial differential equations. **98e:35005**
Estrada, Ricardo *see* **Ulate, Carlos M., 98b:46055**
Globevnik, Josip (*with* Quinto, Eric Todd) Morera theorems via microlocal analysis. (English summary) **98c:30004**
González Rodríguez, Benito (*with* Negrín, Emilio R.) The link between the kernel method and the method of adjoints for the generalized index ${}_2F_1$-transform. (English summary) **98c:44004**
— (*with* Negrín, Emilio R.) Mehler-Fock transforms of generalized functions via the method of adjoints. (English summary) **98c:44005**
Jerez Diaz, C. *see* **Betancor, Jorge J., 98j:44002**
Kashiwara, Masaki (*with* Schapira, Pierre) Integral transforms with exponential kernels and Laplace transform. (English summary) **98d:32013**
Kim, Dohan *see* **Kim, Sung Ki**
Kim, Sung Ki (*with* Kim, Dohan) Fourier transformations of W^Φ-spaces. (English summary)
Łysik, Grzegorz A Phragmén-Lindelöf type quasi-analyticity principle. (English summary) **98b:30029**
Malgonde, S. P. On the distributional generalized Meijer transformation. (English summary) **98b:44003**
Napalkov, V. V., Jr. (*with* Popënov, S. V.) On the Laplace transform of functionals in a weighted Bergman space of entire functions in $\mathbf{C}^n$. (Russian) **98c:46053**
Negrín, Emilio R. *see* **González Rodríguez, Benito, 98c:44004** *and* **98c:44005**
Nemzer, Dennis A note on generalized logarithms. (English summary) **98d:44004**
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Pathak, Ram S. (*with* Pandey, Pradip K.) Sobolev type spaces associated with Bessel operators. (English summary) **98j:46029**
Popënov, S. V. *see* **Napalkov, V. V., Jr., 98c:46053**
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Ulate, Carlos M. (*with* Estrada, Ricardo) Expansion of distributional kernels of the type $f(\lambda x, x)$, as $\lambda \to \infty$. **98b:46055**
Upadhyay, Satyanshu K. H_μ^ρ spaces and Hankel transform. (English summary) **98c:46050**
Vũ Kim Tuấn On the range of the Y-transform. (English summary) **98f:44002**

46F15 Hyperfunctions, analytic functionals [see also 32A25, 32A45, 32C35, 58G07]

Bastin, F. (*with* Laubin, P.) Singular spectrum and functional properties of kernels. (English summary) **98e:46048**

Chung, Jaeyoung (*with* Chung, Soon-Yeong; Kim, Dohan) Translation invariant and positive definite bilinear Fourier hyperfunctions. **98g:46054**
Chung, Soon-Yeong *see* **Chung, Jaeyoung; et al., 98g:46054**
Fujita, Keiko *see* **Morimoto, Mitsuo, 98f:46040** *and* **98m:46057**
Ito, Yoshifumi Theory of Fourier microfunctions of several types. II. (English summary) **98c:46079**
Kim, Dohan *see* **Chung, Jaeyoung; et al., 98g:46054**
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Morimoto, Mitsuo (*with* Fujita, Keiko) Analytic functionals and harmonic functionals. **98f:46040**
— (*with* Fujita, Keiko) Analytic functionals on the complex sphere and eigenfunctions of the Laplacian on the Lie ball. **98m:46057**
Stanković, B. Asymptotic Taylor expansion for Fourier hyperfunctions. (English summary) **98a:46052**
Yoshino, Kunio Some transformations of analytic functionals and their applications. (Japanese) (*see* **98f:35006**)
Zayed, Ahmed I. Wavelet expansions of analytic hyperfunctions. (English summary) **98e:46049**

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Fabiano, A. Boundary values of monogenic functions. **98a:30063**
— An introduction to the microlocal analysis of hypercomplex functions. (English and Italian summaries) **98j:30058**
Gyoja, Akihiko Recent development of the theory of prehomogeneous vector spaces [translation of Sūgaku **47** (1995), no. 3, 209–223; MR 97f:20052]. (*see* **98f:00033**)
Ishimura, Ryuichi (*with* Okada, Yasunori) The micro-support of the complex defined by a convolution operator in tube domains. **98f:58181**
Komatsu, Hikosaburo Solution of differential equations by means of Laplace hyperfunctions. **98d:35026**
Liess, Otto Higher microlocalization and propagation of singularities. **98h:35006**
Lumer, Günter Singular transitions and interactions governed by equations of parabolic type. **98f:35061**
— (*with* Neubrander, Frank) Signaux non-détectables en dimension N dans des systèmes gouvernés par des équations de type parabolique. (English and French summaries) [Nondetectable signals in dimension N in systems governed by equations of parabolic type] **98j:34112**
Muro, Masakazu Singular invariant hyperfunctions on the spaces of symmetric matrices $\mathrm{Sym}_n(\mathbf{R})$, and, of complex and quaternion Hermitian matrices $\mathrm{Her}_n(\mathbf{C})$, $\mathrm{Her}_n(\mathbf{H})$. (Japanese summary) **98b:22019**
Neubrander, Frank *see* **Lumer, Günter, 98j:34112**
Okada, Yasunori *see* **Ishimura, Ryuichi, 98f:58181**
Zasorin, Yu. V. On the Newton principle for the Helmholtz equation. (Russian. Russian summary) **98d:35038**

46F20 Distributions and ultradistributions as boundary values of analytic functions [see also 30D40, 30E25, 32A40]

Items with secondary classifications in 46F20

Łysik, Grzegorz A Phragmén-Lindelöf type quasi-analyticity principle. (English summary) **98b:30029**

46F25 Distributions on infinite-dimensional spaces [see also 58C35]

Accardi, Luigi (*with* Smolyanov, O. G.; Smolyanova, M. O.) Change of variable formulas for infinite-dimensional distributions. (Russian) **98f:46041**
Albeverio, Sergio (*with* Sengupta, Ambar) The Chern-Simons functional integral as an infinite-dimensional distribution. (*see* **98i:00027**)
Berezanskiĭ, Yuriĭ Makarovich Generalized functions, connected with differential hypergroups. (English summary) **98c:46080**
— Infinite-dimensional analysis associated with generalized shift operators. (Russian. English and Ukrainian summaries) **98j:46038**
Chung, Dong Myung (*with* Chung, Tae Su; Ji, Un Cig) A simple proof of analytic characterization theorem for operator symbols. (English summary) **98g:46055**
Chung, Tae Su *see* **Chung, Dong Myung; et al., 98g:46055**
Dôku, Isamu On a class of infinite-dimensional Fourier type transforms in white noise calculus. (English summary) (*see* **98d:60004**)
Ji, Un Cig *see* **Chung, Dong Myung; et al., 98g:46055**
Kachanovskiĭ, N. A. The dual Appell system and Kondrat'ev spaces in analysis on Schwartz spaces. (Russian. English and Ukrainian summaries) **98j:46039**
Kubo, Izumi (*with* Kuo, Hui-Hsiung) Fourier transform and cylindrical Hida distributions. (English summary) **98c:46081**
Kuo, Hui-Hsiung *see* **Kubo, Izumi, 98c:46081**
Lee, Yuh-Jia (*with* Liu, Chun-Fu) A generalization of Mehler transform. (English summary) **98h:46041**
Liu, Chun-Fu *see* **Lee, Yuh-Jia, 98h:46041**
Obata, Nobuaki Constructing one-parameter transformations on white noise functions in terms of equicontinuous generators. (English summary) **98m:46058**
Saitô, Kimiaki Transformations approximating a group generated by the Lévy Laplacian. **98h:46042**
Sengupta, Ambar *see* **Albeverio, Sergio, (98i:00027)**
Smolyanov, O. G. *see* **Accardi, Luigi; et al., 98f:46041**
Smolyanova, M. O. *see* **Accardi, Luigi; et al., 98f:46041**
Solov'ev, M. A. An extension of distribution theory and of the Paley-Wiener-Schwartz theorem related to quantum gauge theory. (English summary) **98g:46056**
Stanković, B. Hyperfunctions. **98k:46070**

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Benth, Fred Espen On the positivity of the stochastic heat equation. (English summary) **98f:60119**
Berezanskiĭ, Yuriĭ Makarovich (*with* Livinskiĭ, V. A.; Litvinov, E. V.) A generalization of Gaussian white noise analysis. (English summary) **98k:60062**
Bojdecki, Tomasz (*with* Gorostiza, Luis G.) A nuclear space of distributions on Wiener space and application to weak convergence. **98a:60046**
Chang, Seung Jun Convolution product and generalized analytic Fourier-Feynman transforms. (English summary) **98f:28018**
Chung, Dong Myung (*with* Chung, Tae Su) First order differential operators in white noise analysis. (English summary) **98j:46040**
Chung, Tae Su *see* **Chung, Dong Myung, 98j:46040**
De Faria, M. (*with* Streit, Ludwig) Some recent advances in white noise analysis. **98b:60078**
Dermoune, A. Wick product and stochastic partial differential equations with Poisson measure. (English and French summaries) **98k:60100**
Dôku, Isamu White noise analysis and the boundary value problem in the space of stochastic distributions. (English summary) (*see* **98b:00034**)
Gorostiza, Luis G. *see* **Bojdecki, Tomasz, 98a:60046**
Kubo, Izumi A direct setting of white noise calculus. **98b:60072**
— Weighted number operators and associated processes in white noise analysis. **98b:60073**
Kuo, Hui-Hsiung A characterization of Hida measures. **98g:60083**
Litvinov, E. V. Multiple Wiener integrals and non-Gaussian white noises: a Jacobi field approach. (English summary) **98e:60084**
— *see also* **Berezanskiĭ, Yuriĭ Makarovich; et al., 98k:60062**
Livinskiĭ, V. A. *see* **Berezanskiĭ, Yuriĭ Makarovich; et al., 98k:60062**
Obata, Nobuaki Wick product of white noise operators and its application to quantum stochastic differential equations. **98m:81080**
Streit, Ludwig A new look at functional integration. **98b:60116**
— *see also* **De Faria, M., 98b:60078**
Üstünel, Ali Süleyman ★ An introduction to analysis on Wiener space. **98d:60109**
Watanabe, Shinzo A fractional calculus on Wiener space. (English summary) **98e:60089**
— Some refinements of Donsker's delta functions. **98c:60071**

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46F99 None of the above, but in this section

Items with secondary classifications in 46F99

Corbo Esposito, Antonio (*with* De Arcangelis, Riccardo) A characterization of sets of functions and distributions on $\mathbf{R}^n$ described by constraints on the gradient. (English summary) **98j:49001**
De Arcangelis, Riccardo *see* **Corbo Esposito, Antonio, 98j:49001**
Solov'ev, M. A. Wick-ordered entire functions of the indefinite metric free field. (English summary) **98h:81073**
Toland, John F. A few remarks about the Hilbert transform. (English summary) **98e:47074**

46Gxx Measures, integration, derivative, holomorphy (all involving infinite-dimensional spaces) {For nonlinear functional analysis, see 47Hxx, 58–XX, especially 58Cxx.}

Items with secondary classifications in 46Gxx

Kriegl, Andreas (*with* Michor, Peter W.) ★ The convenient setting of global analysis. (English summary) **98i:58015**
Michor, Peter W. *see* **Kriegl, Andreas, 98i:58015**

46G05 Derivatives [see also 58C20, 58C25]

Babenko, V. F. (*with* Kofanov, V. A.; Pichugov, S. A.) Sharp inequalities for intermediate derivatives of differentiable mappings of Banach spaces. (Russian. English summary)
Bantaş, Gheorghe (*with* Turinici, Mihai) Remarks about some mean value theorems. (Romanian summary)
Bistrōm, Peter Relations between exponential laws for spaces of C^∞-functions. (English summary) **98c:46082**
Bondar', A. V. Differential properties of mappings into a Banach space. (Russian. English and Ukrainian summaries) **98g:46057**
Cheng, Lixin (*with* Shi, Shuzhong; Lee, E. S.) Generic Fréchet differentiability of convex functions on non-Asplund spaces. (English summary) **98e:46050**
Chung, Dong Myung (*with* Chung, Tae Su) First order differential operators in white noise analysis. (English summary) **98j:46040**
Chung, Tae Su *see* **Chung, Dong Myung, 98j:46040**
Clarke, Francis H. *see* **Radulescu, M. L., 98c:46084**
Georgiev, Pando Gr. (*with* Zlateva, Nadia P.) Generic Gateaux differentiability via smooth perturbations. (English summary) **98i:46039**
He, Sheng-Wu (*with* Wang, Jia-Gang; Yao, Rong-Qin) The characterizations of Laplacians in white noise analysis. **98c:46083**
Kofanov, V. A. *see* **Babenko, V. F.; et al.**
Kriegl, Andreas Remarks on germs in infinite dimensions. (English summary) **98i:46040**
Lee, E. S. *see* **Cheng, Lixin; et al., 98e:46050**
Lindenstrauss, J. (*with* Preiss, David) Almost Fréchet differentiability of finitely many Lipschitz functions. **98b:46058**
Montanaro, Adriano (*with* Pigozzi, Diego) A note about differentiability of maps defined on convex subsets of Banach spaces that may be nowhere dense. (English summary) **98i:46041**

Nan, Chao-Xun *see* **Wang, Jian Hua[3], 98g:46058**
Neuberger, J. W. Sobolev gradients and boundary conditions for partial differential equations. (English summary) **98b:46059**
Pichugov, S. A. *see* **Babenko, V. F.; et al.**
Pigozzi, Diego *see* **Montanaro, Adriano, 98i:46041**
Preiss, David *see* **Lindenstrauss, J., 98b:46058**
Radulescu, M. L. (*with* Clarke, Francis H.) The multidirectional mean value theorem in Banach spaces. (English summary) **98c:46084**
Shi, Shuzhong *see* **Cheng, Lixin; et al., 98e:46050**
Turinici, Mihai Differential mean value properties for half-continuous functions. **98h:46043**
— *see also* **Bantaş, Gheorghe**
Wang, Jia-Gang *see* **He, Sheng-Wu; et al., 98c:46083**
Wang, Jian Hua[3] (*with* Nan, Chao-Xun) The continuity of subdifferential mapping. (English summary) **98g:46058**
Yao, Rong-Qin *see* **He, Sheng-Wu; et al., 98c:46083**
Zlateva, Nadia P. *see* **Georgiev, Pando Gr., 98i:46039**

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Azagra, Daniel (*with* Gómez Gil, Javier; Jaramillo, J. A.) Rolle's theorem and negligibility of points in infinite-dimensional Banach spaces. (English summary) **98h:58016**
Batsuren, S. On the inverse function theorem for Lipschitzian mappings. (English summary) **98a:58017**
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Ali, Sk. Jaker (*with* Chakraborty, N. D.) Analytic weak Radon-Nikodym property in Banach spaces. **98f:46013**
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Helmer, D. A general diagonal process and compactness in spaces of measurable functions. (English summary) **98b:46034**
Hirshberg, A. (*with* Shortt, R. M.) A version of Strassen's theorem for vector-valued measures. (English summary) **98i:28014**
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Shortt, R. M. Correction to: "Strassen's theorem for vector measures" [Proc. Amer. Math. Soc. **122** (1994), no. 3, 811–820; MR 95a:28005]. **98i:28015**
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46G12 Measures and integration on abstract linear spaces [see also 28C20]

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Üstünel, Ali Süleyman (*with* Zakai, Moshe) Extension of Lipschitz functions on Wiener space. (English summary) **98i:46043**
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Ahn, Jae Moon (*with* Chang, Kun Soo; Kim, Jeong Gyoo; Ko, Jung Won; Ryu, Kun Sik) Existence theorems of an operator-valued Feynman integral as an $\mathscr{L}(L_1, C_0)$ theory. **98m:28027**
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— (*with* Sengupta, Ambar) The Chern-Simons functional integral as an infinite-dimensional distribution. (*see* **98i:00027**)
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— Infinite-dimensional analysis associated with generalized shift operators. (Russian. English and Ukrainian summaries) **98j:46038**
Bogachev, Vladimir I. (*with* Krylov, Nicolai V.; Röckner, Michael) Regularity of invariant measures: the case of non-constant diffusion part. (English summary) **98d:60120**
— Gaussian measures on linear spaces. **98a:60004**
Capiński, Marek (*with* Parker, June M.) Continuity of measures on Hilbert space. (English summary) **98c:28026**
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46G20 Infinite-dimensional holomorphy [see also 32–XX, 46E50, 58B12, 58C10]

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46H40 Automatic continuity

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46Jxx Commutative Banach algebras and commutative topological algebras [see also 46E25]

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46J40 Structure, classification of commutative topological algebras

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46J45 Radical Banach algebras

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46J99 None of the above, but in this section

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46Kxx Topological (rings and) algebras with an involution [see also 16W10]

46K05 General theory of topological algebras with involution

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Ayupov, Sh. A. (*with* Ferleger, S. V.; Sukochev, F. A.) Isomorphism between the associative and non-associative L_p-spaces of type II_1 hyperfinite factors. (English summary) **98d:46074**
Blackadar, Bruce (*with* Kirchberg, Eberhard) Generalized inductive limits of finite-dimensional C^*-algebras. **98c:46112**
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Crocker, David (*with* Kumjian, Alexander; Raeburn, Iain; Williams, Dana P.) An equivariant Brauer group and actions of groups on C^*-algebras. (English summary) **98j:46076**
Dadarlat, M. (*with* Gong, Guihua) A classification result for approximately homogeneous C^*-algebras of real rank zero. (English summary) **98j:46062**
Dykema, Kenneth J. Free products of finite-dimensional and other von Neumann algebras with respect to non-tracial states. (English summary) **98c:46131**
— Two applications of free entropy. **98g:46099**
Elliott, George A. A classification of certain simple C^*-algebras. II. **98j:46060**
Ferleger, S. V. *see* **Ayupov, Sh. A.; et al., 98d:46074**
Ge, Liming Prime factors. (English summary) **98d:46068**
Gong, Guihua On inductive limits of matrix algebras over higher-dimensional spaces. I, II. (English summary) **98j:46061**
— *see also* **Dadarlat, M., 98j:46062**
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Khelemskiĭ, A. Ya. Approximately finite-dimensional C^*-algebras with projective Hilbert modules, their Bratteli diagrams and K_0-groups. (Russian. Russian summary) **98m:46071**
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Lin, Hua Xin Almost multiplicative morphisms and some applications. (English summary) **98b:46091**
Matos Neto, A. (*with* Vianna, J. D. M.; Santana, Ademir E.; Khanna, F. C.) The Tomita-Takesaki representation of W^*-algebras, Lie groups, and thermofield dynamics. (English and French summaries) **98b:81272**
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Xu, Shengzhi (*with* Chen, Xiaoman; Yan, Shaozong) Toeplitz C^*-algebra over the L-shaped domain in $\mathbf{C}^n$. (English summary) **98c:46155**
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Ceccherini-Silberstein, Tullio G. Approximately inner and centrally free commuting squares of type II_1 factors and their classification. (English summary) **98b:46079**
— On a convexity problem on subfactors considered by Bhat, Pati and Sunder. **98b:46080**
David, Marie-Claude Paragroupe d'Adrian Ocneanu et algèbre de Kac. [Adrian Ocneanu's paragroup and the Kac algebra] **98f:46051**
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Khoshkam, M. (*with* Mashood, B.) On the relative commutants of subfactors. (English summary) **98k:46101**
Kosaki, Hideki (*with* Sano, Takashi) Non-splitting inclusions of factors of type III_0. (English summary) **98d:46070**
— (*with* Munemasa, Akihiro; Yamagami, Shigeru) On fusion algebras associated to finite group actions. (English summary) **98i:46064**
— Automorphisms arising from composition of subfactors. (Japanese) (*see* **98f:46002**)
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— A structural result of irreducible inclusions of type III_λ factors, $\lambda \in (0, 1)$. (English summary) **98k:46102**

Longo, Roberto (*with* Roberts, John E.) A theory of dimension. (English summary) **98i:46065**
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Masuda, Toshihiko An analogue of Longo's canonical endomorphism for bimodule theory and its application to the asymptotic inclusion. (Japanese) (*see* **98b:46005**)
— An analogue of Longo's canonical endomorphism for bimodule theory and its application to asymptotic inclusions. (English summary) **98a:46078**
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Sato, Nobuya A relation between two subfactors arising from a non-degenerate commuting square—an answer to a question raised by V. F. R. Jones. (Japanese) (*see* **98b:46005**)
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Wu, Liang Sen Split inclusion and metrically nuclear map. (English summary) **98g:46093**

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— C^*-algebras associated with automorphisms acting on distinguished ideals. (Russian. English and Russian summaries) **98k:46107**
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Kawahigashi, Yasuyuki Classification of approximately inner automorphisms of subfactors. **98i:46063**
Kishimoto, Akitaka (*with* Kumjian, Alexander) Crossed products of Cuntz algebras by quasi-free automorphisms. **98h:46076**
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Price, Geoffrey L. The entropy of rational Powers shifts. (English summary) **98g:46103**
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Samman, M. S. (*with* Chaudhry, Muhammad Anwar; Thaheem, A. B.) A note on commutativity of automorphisms. (English summary)
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Blanchard, Etienne Subtriviality of continuous fields of nuclear C^*-algebras. (English summary) **98d:46072**
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Attal, S. (*with* Parthasarathy, Kalyanapuram Rangachari) Strong Markov processes and the Dirichlet problem in von Neumann algebras. (English summary) **98g:46096**
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Ciach, Leszek Jan Dual of non-commutative $L^{p\infty}$-spaces with $0 < p \leq 1$. **98j:46070**
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Dorlas, T. C. Two non-commutative limit theorems. (English summary) **98i:46068**
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Ruskai, Mary Beth Beyond strong subadditivity? Improved bounds on the contraction of generalized relative entropy. (English summary) (*see* **98c:82001**)
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— *see also* **Izumino, Saichi**, **98f:46053**
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— (*with* Sinha, Kalyan B.) Feynman-Kac representation of some noncommutative elliptic operators. (English summary) **98j:46077**
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— Noncommutative Brownian motion in monotone Fock space. (English summary) **98j:81186**
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Accardi, Luigi (*with* Ohya, Masanori; Watanabe, Noboru) Note on quantum dynamical entropies. (English summary) **98a:46081**
Aita, Marco (*with* Bergmann, Wolfgang R.; Conti, Roberto[2]) Amenable groups and generalized Cuntz algebras. (English summary) **98k:46110**
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— *see also* **Bunce, L. J., 98h:46080**
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Hejazian, S. (*with* Niknam, A.) Continuity of module derivations on C^*-algebras and JB*-algebras. (English summary) **98k:46119**
Ji, Pei Sheng Facial structure in JB-algebras. (Chinese. English and Chinese summaries) **98c:46147**
Ma, Ji Pu *see* **Zhang, Lun Chuan, 98a:46088** *and* **98f:46059**
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Xu, Tian Zhou A structure theorem for compact commutative JB*-triples. (Chinese. English and Chinese summaries) **98k:46120**
Zhang, Lun Chuan (*with* Ma, Ji Pu) Characterizations of hereditary and full hereditary JB-subalgebras. **98a:46088**
— (*with* Ma, Ji Pu) Characterizations of hereditary and totally hereditary JB-subalgebras. (Chinese) **98f:46059**

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Ayupov, Sh. A. (*with* Ferleger, S. V.; Sukochev, F. A.) Isomorphism between the associative and non-associative L_p-spaces of type II_1 hyperfinite factors. (English summary) **98d:46074**

Battyányi, Péter Jordan *-derivations with respect to the Jordan product. (*see* **98d:39001**)
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Zalar, Borut Jordan $*$-derivation pairs and quadratic functionals on modules over $*$-rings. (English summary) **98i:46051**

46L80 K-theory and operator algebras (including cyclic theory) [see also 18F25, 19Kxx, 46M20, 55Rxx, 58G12]

Almeida, P. (*with* Severino, R.; Sousa Ramos, J.) Symbolic dynamical systems and K-theory. (English summary) **98g:46105**
Baum, Paul (*with* Higson, Nigel; Plymen, Roger) A proof of the Baum-Connes conjecture for p-adic $\mathrm{GL}(n)$. (English and French summaries) **98m:46087**
Bettaieb, Hela (*with* Valette, Alain) Sur le groupe K_1 des C^*-algèbres réduites de groupes discrets. (English and French summaries) [On K_1 of reduced C^*-algebras of discrete groups] **98b:46090**
Fillmore, Peter A. From K-theory to E-theory. (*see* **98f:00020**)
Germain, Emmanuel KK-theory of the full free product of unital C^*-algebras. (English summary) **98c:46148**
Goodearl, K. R. K_0 of multiplier algebras of C^*-algebras with real rank zero. (English summary) **98e:46086**
Higson, Nigel *see* **Baum, Paul; et al., 98m:46087**
Kodaka, Kazunori Full projections, equivalence bimodules and automorphisms of stable algebras of unital C^*-algebras. (English summary) **98c:46149**
Le Gall, Pierre-Yves Théorie de Kasparov équivariante et groupoïdes. (English and French summaries) [Equivariant Kasparov theory and groupoids] **98c:46150**
Lin, Hua Xin Extensions of $C(X)$ by simple C^*-algebras of real rank zero. (English summary) **98m:46088**
— Almost multiplicative morphisms and some applications. (English summary) **98b:46091**
Loring, Terry A. Perturbation questions in the Cuntz picture of K-theory. (English summary) **98e:46087**
McClanahan, Kevin KK-groups of twisted crossed products by groups acting on trees. (English summary) **98b:46092**
Nagy, Gabriel B. E-theory with $*$-homomorphisms. (English summary) **98k:46121**
Pardo, E. Metric completions of ordered groups and K_0 of exchange rings. (English summary) **98e:46088**
Plymen, Roger *see* **Baum, Paul; et al., 98m:46087**
Severino, R. *see* **Almeida, P.; et al., 98g:46105**
Sousa Ramos, J. *see* **Almeida, P.; et al., 98g:46105**
Tabatabaie, B. The way automorphism of the irrational rotation algebras behave at a K-theoretic level. (English summary) **98a:46089**
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Abadie, Beatriz (*with* Eilers, Søren; Exel, Ruy) Morita equivalence for crossed products by Hilbert C^*-bimodules. (English summary) **98k:46109**
Blanchard, Etienne Subtriviality of continuous fields of nuclear C^*-algebras. (English summary) **98d:46072**
Cerri, Cristina Non-commutative deformations of $C(\mathbf{T}^2)$ and K-theory. (English summary) **98j:46082**
Chan, Shing-Wai Periodic cyclic cohomology Chern character for pseudomanifolds with one singular stratum. (English summary) **98g:58169**
Chen, Zhiqiang[2] Séries complémentaires des groupes de Lorentz et KK-théorie. [Complementary series of Lorentz groups and KK-theory] **98g:19008**
Cho, Sung Je Essentially normal elements of von Neumann algebras. (English summary) **98b:46077**
Cuntz, Joachim J. R. Bivariante K-Theorie für lokalkonvexe Algebren und der Chern-Connes-Charakter. (English summary) [Bivariant K-theory for locally convex algebras and the Chern-Connes character] **98h:19006**
— (*with* Quillen, Daniel) Excision in bivariant periodic cyclic cohomology. **98g:19003**
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Eilers, Søren *see* **Abadie, Beatriz; et al., 98k:46109**
Elliott, George A. (*with* Gong, Guihua) On the classification of C^*-algebras of real rank zero. II. (English summary) **98j:46055**
— (*with* Gong, Guihua; Lin, Hua Xin; Pasnicu, Cornel) Abelian C^*-subalgebras of C^*-algebras of real rank zero and inductive limit C^*-algebras. (English summary) **98a:46076**
— A classification of certain simple C^*-algebras. II. **98j:46060**
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— *see also* **Elliott, George A.; et al., 98a:46076; 98j:46055** *and* **Dadarlat, M., 98j:46062**
Goodearl, K. R. C^*-algebras of real rank zero whose K_0's are not Riesz groups. (English summary) **98b:46071**
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Heffernan, David (*with* Power, Stephen C.) Limits of sums of digraph algebras with reduced digraphs having two vertices. (English summary) **98a:46068**
Higson, Nigel (*with* Nistor, Victor) Cyclic homology of totally disconnected groups acting on buildings. (English summary) **98b:19004**
— (*with* Pedersen, Erik Kjær; Roe, John) C^*-algebras and controlled topology. (English summary) **98g:19009**
Kaminker, Jerome (*with* Putnam, Ian F.) K-theoretic duality of shifts of finite type. (English summary) **98f:46056**
Karoubi, Max Sur la K-théorie multiplicative. (English summary) [Multiplicative K-theory] **98j:19003**
Khelemskiĭ, A. Ya. Approximately finite-dimensional C^*-algebras with projective Hilbert modules, their Bratteli diagrams and K_0-groups. (Russian. Russian summary) **98m:46071**
Khoshkam, M. (*with* Skandalis, G.) Toeplitz algebras associated with endomorphisms and Pimsner-Voiculescu exact sequences. (English summary) **98k:46088**
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— The KK-product of unbounded modules. (English summary) **98k:19007**
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Laca, Marcelo (*with* Spielberg, John S.) Purely infinite C^*-algebras from boundary actions of discrete groups. **98a:46085**
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— The generalized Berg theorem and BDF-theorem. (English summary) **98g:46085**
— *see also* **Elliott, George A.; et al., 98a:46076**
Loring, Terry A. (*with* Pedersen, Gert K.) Smoothing techniques in C^*-algebra theory. (English summary) **98c:46122**
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Nistor, Victor *see* **Higson, Nigel, 98b:19004**
Pasnicu, Cornel *see* **Elliott, George A.; et al., 98a:46076**
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Pedersen, Gert K. Extensions of C^*-algebras. **98m:46073**
— *see also* **Loring, Terry A., 98c:46122**
Phillips, John Self-adjoint Fredholm operators and spectral flow. (English summary) **98b:47017**
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— *see also* **Kaminker, Jerome, 98f:46056**
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Roe, John *see* **Higson, Nigel; et al., 98g:19009**
Rørdam, Mikael The stable rank of $C^*_{\mathrm{red}}(F_n)$ is one—a survey. **98m:46075**
— Classification of certain infinite simple C^*-algebras. III. (English summary) **98j:46059**
— Stability of C^*-algebras is not a stable property. (English summary) **98i:46060**
Rosenberg, Jonathan The algebraic K-theory of operator algebras. (English summary) **98h:19007**
Sheu, Albert J. L. Compact quantum groups and groupoid C^*-algebras. (English summary) **98e:46090**
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Stacey, P. J. An action of the Klein four-group on the irrational rotation C^*-algebra. (English summary) **98h:46069**
Tapia, Joseph K-théorie algébrique négative et K-théorie topologique de l'algèbre de Fréchet des opérateurs régularisants. (English summary) [Negative algebraic K-theory and topological K-theory of the Fréchet algebra of smoothing operators] **98b:46096**
Troitskiĭ, E. V. (*with* Frank, Michael) Lefschetz numbers and the geometry of operators in W^*-modules. (Russian. Russian summary) **98c:46126**
Wu, Fangbing A bivariant Chern-Connes character and the higher Γ-index theorem. (English summary) **98b:19006**
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— Localization algebras and the coarse Baum-Connes conjecture. (English summary) **98i:19004**

46L85 Noncommutative topology [see also 58B30, 58G12]

Benameur, Moulay-Tahar Triangulations and the stability theorem for foliations. (English summary) **98e:46089**
Brodzki, Jacek Cyclic cohomology, supertraces and index theory. **98g:46106**
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— (*with* Pedersen, Gert K.) Corona extendibility and asymptotic multiplicativity. (English summary) **98a:46091**
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— Dimension theory of the C^*-algebras of Lie groups. (Japanese) (*see* **98f:46002**)
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Christensen, Erik[1] (*with* Pop, Florin; Sinclair, Allan M.; Smith, Roger R.) On the cohomology groups of certain finite von Neumann algebras. **98c:46130**
Cuntz, Joachim J. R. (*with* Quillen, Daniel) Excision in bivariant periodic cyclic cohomology. **98g:19003**
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Gilfeather, Frank L. (*with* Pop, Florin; Smith, Roger R.) Cohomology for operator algebras: the Mayer-Vietoris sequence. (English summary) **98k:46124**
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Loring, Terry A. Perturbation questions in the Cuntz picture of K-theory. (English summary) **98e:46087**
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Nistor, Victor Higher index theorems and the boundary map in cyclic cohomology. (English summary) **98j:19006**
Pauisen, Vern I. Relative Yoneda cohomology for operator spaces: an overview. **98k:46125**
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46L87 Noncommutative differential geometry [see also 58B30, 58G12]

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— The local structure of tilings and their integer group of coinvariants. (English summary) **98m:46090**
Landstad, Magnus B. Quantizations of groups and homogeneous spaces. **98m:46091**
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Boca, Florin P. The structure of higher-dimensional noncommutative tori and metric Diophantine approximation. (English summary) **98k:46096**
Carminati, Lionel (*with* Iochum, Bruno; Schücker, Thomas) The noncommutative constraints on the standard model à la Connes. (English summary) **98e:81199**
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Connes, Alain Géométrie non commutative et physique quantique. [Noncommutative geometry and quantum physics] **98m:58005**
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— Brisure de symétrie spontanée et géométrie du point de vue spectral. (English summary) [Spontaneous symmetry breaking and geometry from the spectral point of view] **98h:58011b**
Dranishnikov, A. N. (*with* Ferry, Steven C.) On the Higson-Roe corona. (Russian) **98k:58214**
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Elliott, George A. (*with* Lin, Qing) Cut-down method in the inductive limit decomposition of non-commutative tori. **98e:46067**
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Heller, Michael (*with* Sasin, Wiesław) Noncommutative structure of singularities in general relativity. (English summary) **98g:83075**
— (*with* Sasin, Wiesław; Lambert, Dominique) Groupoid approach to noncommutative quantization of gravity. (English summary) **98k:58017**
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Kalau, W. (*with* Walze, M.) Supersymmetry and noncommutative geometry. (English summary) **98d:58007**
Kastler, Daniel (*with* Madore, John; Testard, D.) Connections of bimodules in non-commutative geometry. (English summary) **98c:58008**
Kellendonk, Johannes Topological equivalence of tilings. (English summary) **98k:52053**
Kordyukov, Yu. A. Noncommutative spectral geometry of Riemannian foliations. (English summary) **98j:58116**
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Langmann, Edwin Quantum gauge theories and noncommutative geometry. (English summary) **98d:81110**
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— *see also* **Elliott, George A., 98e:46067** *and* **98e:46068**
Madore, John (*with* Mourad, Jihad; Sitarz, Andrzej) Deformations of differential calculi. (English summary) **98e:58023**
— *see also* **Kastler, Daniel; et al., 98c:58008**
Martín, C. P. (*with* Gracia-Bondía, José M.; Várilly, Joseph C.) The standard model as a noncommutative geometry: the low-energy regime. (English summary) **98k:81315**
Mignaco, Juan A. (*with* Sigaud, C.; Vanhecke, F. J.; da Silva, Antonio R.) The Connes-Lott program on the sphere. (English summary) **98h:58014**
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Monthubert, Bertrand (*with* Pierrot, François) Indice analytique et groupoïdes de Lie. (English and French summaries) [Analytic index and Lie groupoids] **98k:58219**
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Schmüdgen, Konrad (*with* Schüler, Axel) Bicovariant differential calculi on quantum groups A_{n-1}, B_n, C_n and D_n. (English summary) **98k:58019**
— (*with* Schüler, Axel) Left-covariant differential calculi on $\mathrm{SL}_q(N)$. (English summary) **98k:58020**
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Sitarz, Andrzej Noncommutative differential geometry and connections on simplicial manifolds. (English summary) **98j:58013**
— *see also* **Madore, John; et al., 98e:58023**
Sun, Xiao Dong[1] (*with* Wang, Shi-Kun; Wu, Ke[1]) Quantum subgroups and quantum coset spaces and differential calculi on them. (English summary) **98k:58021**
Teo, Edward (*with* Ting, Christopher) Monopoles, vortices, and kinks in the framework of noncommutative geometry. (English summary) **98h:58015**
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Troitskii, E. V. (*with* Frank, Michael) Lefschetz numbers and the geometry of operators in W^*-modules. (Russian. Russian summary) **98c:46126**
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46L89 Other "noncommutative" mathematics based on C^*-algebra theory [see also 58B30, 58G12]

Golodets, Valentin Ya. (*with* Oleksenko, V. M.; Sansuc, Jean-Jacques) Simplicity of A. van Daele algebra for finite-dimensional C^*-Hopf algebras. (English summary) **98k:46122**
Larson, David R. (*with* Solel, Baruch) Structured triangular limit algebras. **98c:46153**
Maghfoul, Mohamed C^*-algèbre de Woronowicz et moyenne de Haar. (English and French summaries) [Woronowicz C^*-algebra and Haar mean] **98d:46079**
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Abadie, Beatriz (*with* Exel, Ruy) Hilbert C^*-bimodules over commutative C^*-algebras and an isomorphism condition for quantum Heisenberg manifolds. (English summary) **98d:46060**

Cartier, Pierre Développements récents sur les groupes de tresses. Applications à la topologie et à l'algèbre. (English summary) [Recent developments in the study of braid groups. Applications to topology and algebra] (*see* **98e:58004**)
Dodds, P. G. (*with* Sukochev, F. A.) RUC-decompositions in symmetric operator spaces. (English summary) **98m:46008**
Douglas, Ronald G. (*with* Kaminker, Jerome) Induced cyclic cocycles and higher eta invariants. (English summary) **98h:58186**
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Hofmeier, Helmut (*with* Wittstock, Gerd) A bicommutant theorem for completely bounded module homomorphisms. **98h:46065**
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46Mxx Methods of category theory in functional analysis [see also 18–XX]

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46M15 Functors {For K-theory and EXT, see 19K33, 46L80, 46M20.}

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Liu, Guo Zhong *see* **Wu, Huo Xiong, 98j:41020**
Liu, Lan Zhe *see* **Yin, Chang Ming**
Lunardi, Alessandra An interpolation method to characterize domains of generators of semigroups. (English summary) **98a:47040**
— (*with* Vespri, Vincenzo) Optimal L^∞ and Schauder estimates for elliptic and parabolic operators with unbounded coefficients. **98k:35035**
Maligranda, Lech *see* **Asekritova, Irina U.; et al., 98g:46032**
McIntosh, Alan *see* **Auscher, Pascal; et al., 98k:47033**
Meyer, Yves *see* **Gérard, Patrick; et al., (98f:35005)**
Nahmod, Andrea *see* **Auscher, Pascal; et al., 98k:47033**
Oru, Frédérique *see* **Gérard, Patrick; et al., (98f:35005)**
Persson, Lars-Erik *see* **Asekritova, Irina U.; et al., 98g:46032**
Radyno, Ya. *see* **Antonevich, Anatoliĭ B.; et al., 98h:47006**
Radzievskiĭ, G. V. Moduli of continuity defined with respect to the zero extension of a function, and K-functionals with constraints. (Russian. English and Ukrainian summaries) **98b:41034**
Raynaud, Yves On duals of Calderón-Lozanovskiĭ intermediate spaces. (English summary) **98a:46040**
Simonenko, I. B. *see* **Deundyak, V. M., 98e:47075**
Tai, Wei-Shyan *see* **Liu, Fon-Che, 98k:46054**
Tonge, A. M. *see* **Lennard, C. J.; et al., 98e:46010**
Vespri, Vincenzo *see* **Lunardi, Alessandra, 98k:35035**
Vogt, Dietmar Tame splitting pairs of type 0 and 1. **98a:46006**
Weston, Anthony *see* **Lennard, C. J.; et al., 98e:46010**
Wu, Huo Xiong (*with* Liu, Guo Zhong) The equivalence of weighted K-functionals and moduli of smoothness in the space $L_M(S)$. (Chinese. English and Chinese summaries) **98j:41020**
Yang, Jun Qing Interpolation theory for a class of nonhomogeneous Sobolev spaces defined by Hörmander vector fields. (Chinese. English and Chinese summaries) **98f:46034**
Yin, Chang Ming (*with* Liu, Lan Zhe) Weighted boundedness and interpolation of operators in Lebesgue spaces of mixed type. (Chinese)
Zeng, Liu Chuan Weak convergence of almost-orbits of asymptotically nonexpansive families in uniformly convex Banach spaces. (Chinese. Chinese summary) **98d:47128**

46M40 Inductive and projective limits [see also 46A13]

Braun, Rüdiger W. (*with* Vogt, Dietmar) A sufficient condition for $\mathrm{Proj}^1 \mathscr{X} = 0$. **98c:46162**
Vogt, Dietmar *see* **Braun, Rüdiger W., 98c:46162**

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Allan, Graham R. Stable inverse-limit sequences, with application to Fréchet algebras. (English summary) **98c:46099**
Carboni, Graciela (*with* Larotonda, Angel R.) Exactness of the Frobenius limit. (Spanish)
Hadjigeorgiou, R. I. Boundaries in inductive limit topological algebras. (English summary) **98c:46096**
Larotonda, Angel R. *see* **Carboni, Graciela**
Larson, David R. (*with* Solel, Baruch) Structured triangular limit algebras. **98c:46153**
Solel, Baruch *see* **Larson, David R., 98c:46153**

46M99 None of the above, but in this section

Items with secondary classifications in 46M99

Iovino, José Definability in functional analysis. (English summary) **98i:03046**
Skalyga, V. I. Analogues of Markov and Bernstein inequalities for polynomials in Banach spaces. (Russian. Russian summary) **98c:46087**

46Nxx Miscellaneous applications of functional analysis [see also 47Nxx]

Litvinov, G. L. (*with* Maslov, V. P.) Idempotent mathematics: the correspondence principle and its computer realizations. (Russian) **98b:46098**
Maslov, V. P. *see* **Litvinov, G. L., 98b:46098**

46N10 Applications in optimization, convex analysis, mathematical programming, economics

Bălaj, Mircea On separation of sets by convex functionals.
Grzaślewicz, Ryszard Extreme continuous function property. **98b:46099**
Le, Vy Khoi (*with* Schmitt, Klaus) Minimization problems for noncoercive functionals subject to constraints. II. (English summary) **98c:46163**
Samanta, Hora Krishna Some results in locally convex linear topological spaces and its applications to a class of optimization problems. (English summary) **98g:46109**
— A class of generalized best approximation problems in locally convex linear topological spaces. (English summary) **98g:46110**
Schmitt, Klaus *see* **Le, Vy Khoi, 98c:46163**

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Alber, Yakov (*with* Burachik, Regina S.; Iusem, Alfredo Noel) A proximal point method for nonsmooth convex optimization problems in Banach spaces. (English summary) **98m:90185**
Azimov, Abbas Ya. Necessary optimality conditions for abstract vector optimization problem in ordered Banach spaces. (English and Turkish summaries) **98j:90056**
Bagh, Adib Epi/hypo-convergence: the slice topology and saddle points approximation. (English summary) **98b:49013**
Balaganskiĭ, V. S. (*with* Vlasov, L. P.) The problem of the convexity of Chebyshev sets. (Russian) **98e:46007**
Bianchi, Monica (*with* Hadjisavvas, N.; Schaible, S.) Vector equilibrium problems with generalized monotone bifunctions. (English summary) **98a:90086**
Bobylev, N. A. (*with* Korovin, S. K.; Kutuzov, A. A.) Gradient methods in infinite-dimensional problems. (Russian. Russian summary) **98a:90131**
Borwein, Jonathan M. (*with* Moors, Warren B.) Essentially smooth Lipschitz functions. (English summary) **98i:58028**
Breckner, Wolfgang W. (*with* Kassay, Gábor) A systematization of convexity concepts for sets and functions. (English summary) **98h:52002**
Burachik, Regina S. *see* **Alber, Yakov; et al., 98m:90185**
Cain, Bryan (*with* Hershkowitz, Daniel; Schneider, Hans) Theorems of the alternative for cones and Lyapunov regularity of matrices. (English summary) **98m:46002**
Caligaris, O. (*with* Oliva, P.) Subdifferential of functionals in abstract spaces and necessary conditions in calculus of variations. (English summary) **98m:49035**
Carlen, Eric A. (*with* Loss, Michael) On the minimization of symmetric functionals. (*see* **98c:82001**)
Clarke, Francis H. *see* **Radulescu, M. L., 98c:46084**
Combari, C. (*with* Thibault; Lionel) On the graph convergence of subdifferentials of convex functions. (English summary) **98j:49020**
Conti, Monica C. Walking around mountains. (Italian summary) **98a:49023**
Delbaen, Freddy (*with* Schachermayer, Walter) Attainable claims with pth moments. (English and French summaries) **98c:90012**
— (*with* Schachermayer, Walter) The Banach space of workable contingent claims in arbitrage theory. (English and French summaries) **98f:60105**
Desaint, Fabrice (*with* Zolésio, Jean-Paul) Dérivation de forme dans les problèmes elliptiques tangentiels. (English and French summaries) [Shape derivative for tangential elliptic problems] **98a:49066**
Dragomir, Sever Silvestru (*with* Fitzpatrick, S. P.) s-Orlicz convex functions in linear spaces and Jensen's discrete inequality. (English summary) **98d:46045**
Fitzpatrick, S. P. *see* **Dragomir, Sever Silvestru, 98d:46045**
Ger, Joanna (*with* Ger, Roman) On some curves in vector lattices. (English summary) **98a:46012**

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Hadjisavvas, N. *see* **Bianchi, Monica; et al.**, **98a:90086**
Hershkowitz, Daniel *see* **Cain, Bryan; et al.**, **98m:46002**
Hiriart-Urruty, Jean-Baptiste (*with* Ledyaev, Yu. S.) A note on the characterization of the global maxima of a (tangentially) convex function over a convex set. (English summary) **98a:49027**
Im, Sung Mo (*with* Lee, Sang Han) A metric induced by a norm on normed almost linear spaces. **98g:46006a**
— (*with* Lee, Sang Han) Uniqueness of bases for almost linear spaces. **98g:46006b**
Ioffe, Alexandre D. (*with* Penot, Jean-Paul) Subdifferentials of performance functions and calculus of coderivatives of set-valued mappings. (English summary) **98i:49022**
Isac, George (*with* Persson, Lars-Erik) Inequalities related to isotonicity of projection and antiprojection operators. (English summary) **98m:47054**
Iusem, Alfredo Noel *see* **Alber, Yakov; et al.**, **98m:90185**
Kassay, Gábor *see* **Breckner, Wolfgang W.**, **98h:52002**
Kim, Seongjai (*with* Symes, William W.) Smooth detectors of linear phase. (English summary) **98k:46064**
Kindler, Jürgen Topological minimax theorems and approximation. (English summary) **98e:49015**
Korovin, S. K. *see* **Bobylev, N. A.; et al.**, **98a:90131**
Kutateladze, Semën Samsonovich On the subdifferential of a convex operator at a generalized point. (Russian. Russian summary) **98e:49041**
Kutuzov, A. A. *see* **Bobylev, N. A.; et al.**, **98a:90131**
Ledyaev, Yu. S. *see* **Hiriart-Urruty, Jean-Baptiste**, **98a:49027**
Lee, Sang Han *see* **Im, Sung Mo**, **98g:46006a** *and* **98g:46006b**
Levin, Vladimir L. Dual representations of convex bodies and of their polars. (Russian) **98b:52002**
— Semiconical sets, semi-homogeneous functions, and a new duality scheme in convex analysis. (Russian) **98k:49049**
Li, Gui Lan *see* **Wang, Run Jie; et al.**, **98a:46014**
Loss, Michael *see* **Carlen, Eric A.**, (**98c:82001**)
Mehta, Ghanshyam B. (*with* Tan, Kok-Keong; Yuan, Xian-Zhi) The existence of maximal elements and equilibria in Frechet spaces. (English summary) **98a:90030**
Moors, Warren B. *see* **Borwein, Jonathan M.**, **98i:58028**
Mordukhovich, Boris S. (*with* Shao, Yongheng) Fuzzy calculus for coderivatives of multifunctions. **98m:49038**
Oliva, P. *see* **Caligaris, O.**, **98m:49035**
Olko, Jolanta Semigroups of set-valued functions. (English summary) **98k:28019**
Pallaschke, Diethard (*with* Rolewicz, Stefan) ★ Foundations of mathematical optimization. (English summary) **98f:49001**
Penot, Jean-Paul Mean-value theorem with small subdifferentials. (English summary) **98h:49019**
— *see also* **Ioffe, Alexandre D.**, **98i:49022**
Persson, Lars-Erik *see* **Isac, George**, **98m:47054**
Radulescu, M. L. (*with* Clarke, Francis H.) The multidirectional mean value theorem in Banach spaces. (English summary) **98c:46084**
Rockafellar, R. Tyrrell (*with* Wets, Roger J.-B.) ★ Variational analysis. **98m:49001**
Rolewicz, Stefan *see* **Pallaschke, Diethard**, **98f:49001**
Roubíček, Tomáš ★ Relaxation in optimization theory and variational calculus. (English summary) **98e:49002**
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Schaible, S. *see* **Bianchi, Monica; et al.**, **98a:90086**
Schneider, Hans *see* **Cain, Bryan; et al.**, **98m:46002**
Sengupta, Ashok Multifunction and generalized inverse. (English summary) **98f:54022**
Shao, Yongheng *see* **Mordukhovich, Boris S.**, **98m:49038**
Singer, Ivan ★ Abstract convex analysis. **98k:49002**
Solimini, Sergio Simplified excision techniques for free disontinuity problems in several variables. (English summary) **98k:49056**
Suslov, S. I. Semicontinuity of an integral functional in a Banach space. (Russian. Russian summary) **98h:49015**
Symes, William W. *see* **Kim, Seongjai**, **98k:46064**
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Wang, Run Jie (*with* Zhang, De Xin; Li, Gui Lan) A uniform boundedness theorem for a family of closed convex processes on an incomplete normed space. (Chinese. English and Chinese summaries) **98a:46014**
Wets, Roger J.-B. *see* **Rockafellar, R. Tyrrell**, **98m:49001**
Wu, Kangping The strict positivity in a nonstandard hull and its applications to economics. (English summary) **98b:46011**
Yuan, Xian-Zhi *see* **Mehta, Ghanshyam B.; et al.**, **98a:90030**
Yushkevich, Aleksandr A. The compactness of a policy space in dynamic programming via an extension theorem for Carathéodory functions. (English summary) **98h:49030**
Zhang, De Xin *see* **Wang, Run Jie; et al.**, **98a:46014**
Zheng, Xi Yin A general form of the Arrow-Barankin-Blackwell theorem in locally convex topological vector spaces. (Chinese. Chinese summary) **98m:90137**
— The domination property for efficiency in locally convex spaces. **98j:90068**
Zolésio, Jean-Paul *see* **Desaint, Fabrice**, **98a:49066**

46N20 Applications to differential and integral equations

Brown, Richard C. (*with* Hinton, D. B.) Weighted interpolation and Hardy inequalities with some spectral-theoretic applications. (English summary) (*see* **98c:00012**)
Hinton, D. B. *see* **Brown, Richard C.**, (**98c:00012**)
Neuberger, J. W. Continuous steepest descent in higher order Sobolev spaces. (*see* **98h:00034**)
Shatalov, V. E. *see* **Sternin, Boris Yu.**, (**98i:00036**)
Sternin, Boris Yu. (*with* Shatalov, V. E.) On operator algebras associated with resurgent representations. (*see* **98i:00036**)
Volpert, A. I. Analysis in classes of discontinuous functions and partial differential equations. (English summary) **98g:46111**

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Aliev, I. V. On the basis property of a system of eigen- and associated functions for nonlocal boundary value problems. (Russian. Russian summary) **98a:35099**
Ambrosetti, Antonio (*with* Badiale, Marino) Homoclinics: Poincaré-Melnikov type results via a variational approach. (English and French summaries) **98g:35026**
Arai, Hitoshi Degenerate elliptic operators, H^1 spaces and diffusions on strongly pseudoconvex domains. (English summary) **98e:32008**
Badiale, Marino *see* **Ambrosetti, Antonio**, **98g:35026**
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Bliev, N. ★ Generalized analytic functions in fractional spaces. **98g:30075**
Boiti, M. (*with* Pempinelli, F.; Pogrebkov, A. K.) Spectral theory of solitons on a generic background for the KPI equation. (English summary) **98g:35175**
Bolik, Jürgen (*with* von Wahl, Wolf) Estimating $\nabla \mathbf{u}$ in terms of div $\mathbf{u}$, curl $\mathbf{u}$, either $(\nu, \mathbf{u})$ or $\nu \times \mathbf{u}$ and the topology. (English summary) **98d:35023**
Brandolini, Luca (*with* Colzani, Leonardo) Fourier transform, oscillatory multipliers and evolution equations in rearrangement invariant function spaces. **98f:35022**
Bruno, Giordano (*with* Grande, R.) A compactness criterion in B^q_p spaces. (English and Italian summaries) **98g:46047**
Colzani, Leonardo *see* **Brandolini, Luca**, **98f:35022**
Di Blasio, Gabriella Parabolic Volterra integrodifferential equations with noncontinuous data. (English summary) **98f:35066**
Dossa, Marcel Espaces de Sobolev non isotropes, à poids et problèmes de Cauchy quasi-linéaires sur un conoïde caractéristique. (English and French summaries) [Nonisotropic weighted Sobolev spaces and quasilinear Cauchy problems on a weighted conoid] **98b:35117**
Eden, Alp (*with* Kalantarov, V. K.) Finite-dimensional attractors for a class of semilinear wave equations. (English and Turkish summaries) **98j:34118**
Fiorenza, Alberto A Liouville-type theorem for very weak solutions of nonlinear partial differential equations. (English summary) **98k:35053**
Fu, Yong Qiang *see* **Wu, Cong Xin**, **98c:46067**
Furuya, Kiyoko Mixed problem for wave equations with oblique boundary condition. (English summary) **98i:35110**
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Járai, A. (*with* Székelyhidi, László) Regularization and general methods in the theory of functional equations. (English summary) **98c:39006**
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Kanwal, Ram P. ★ Generalized functions. (English summary) **98i:46001**
Kawabata, Toshihiro (*with* Takeda, Masayoshi) On uniqueness problem for local Dirichlet forms. **98e:31009**
Klainerman, Sergiu (*with* Machedon, Matei) Estimates for null forms and the spaces $H_{s,\delta}$. **98j:46028**
Kozlov, Vladimir Arkad'evich (*with* Maz'ya, Vladimir G.; Rossmann, J.) ★ Elliptic boundary value problems in domains with point singularities. (English summary) **98f:35038**
Lagarias, Jeffrey C. (*with* Wang, Yang[1]) Spectral sets and factorizations of finite abelian groups. (English summary) **98b:47011b**
Lions, Jacques-Louis (*with* Sanchez-Palencia, Évariste) Sur quelques espaces de la théorie des coques et la sensitivité. (English summary) [On certain spaces of the theory of shells and sensitivity] **98k:73051**
Liu, Wei An Cones in integrable vector valued function spaces and abstract impulsive integro-differential equations. (English summary) **98e:45007**
Lu, Shanzhen (*with* Yang, Dachun) Herz-type Sobolev and Bessel potential spaces and their applications. (English summary) **98i:46028**
Machedon, Matei *see* **Klainerman, Sergiu**, **98j:46028**
Maz'ya, Vladimir G. *see* **Kozlov, Vladimir Arkad'evich; et al.**, **98f:35038**
Miyakawa, Tetsuro Hardy spaces of solenoidal vector fields, with applications to the Navier-Stokes equations. **98i:46024**
Moritoh, Shinya Wavelet transforms in $\mathbf{R}^n$—wave front sets and Besov, Triebel-Lizorkin spaces. (English summary) **98i:46030**
Najmi, Mohamed Problème de régularité-singularité dans les espaces de Hölder pour un opérateur elliptique. (Italian summary) [Regularity-singularity in Hölder spaces for an elliptic operator] **98e:35047**
Neuberger, J. W. Laplacians and Sobolev gradients. (English summary) **98i:47046**
Nicaise, Serge Regularity of the solutions of elliptic systems in polyhedral domains. (English summary) **98k:35044**
Nishimoto, Katsuyuki ★ Fractional calculus. Vol. V. **98b:26005**
Nussenzveig Lopes, H. J. A refined estimate of the size of concentration sets for 2D incompressible inviscid flow. (English summary) **98h:35191**
Pedersen, Steen Spectral sets whose spectrum is a lattice with a base. (English summary) **98b:47011a**
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Pogrebkov, A. K. *see* **Boiti, M.; et al.**, **98g:35175**
Rabinovich, Vladimir S. Algebras of singular integral operators on composed contours with nodes that are logarithmic whirl points. (Russian. Russian summary) **98b:47064**
(Radok, Jens Rainer Maria) *see* **Bliev, N.**, **98g:30075**
Roitberg, I. Ya. Elliptic boundary value problems for general systems of equations in complete scales of Banach spaces. (Russian) **98h:35055**
Rossmann, J. *see* **Kozlov, Vladimir Arkad'evich; et al.**, **98f:35038**
Saitoh, Saburou Analyticity of the solutions of the heat equation on the half space $\mathbf{R}^n_+$. (English summary) (*see* **98c:00012**)
— ★ Integral transforms, reproducing kernels and their applications. (English summary) **98k:46041**
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Schrohe, Elmar Wodzicki's noncommutative residue and traces for operator algebras on manifolds with conical singularities. **98d:58180**

Shaposhnikova, T. O. Sobolev multipliers in a non-smooth L_p elliptic theory. (*see* **98i:00036**)
Sjölin, Per L^p maximal estimates for solutions to the Schrödinger equation. (English summary) **98j:35038**
Sjöstrand, Johannes Function spaces associated to global I-Lagrangian manifolds. (English summary) **98i:58230**
Strömberg, Thomas On regularization in Banach spaces. **98b:46020**
Stupyalis, L. ★ Краевые задачи для уравнений Навье-Стокса. (Russian. English, Russian and Lithuanian summaries) [Boundary value problems for Navier-Stokes equations] **98k:35154**
Székelyhidi, László *see* **Járai, A., 98c:39006**
Takeda, Masayoshi *see* **Kawabata, Toshihiro, 98e:31009**
Taylor, Michael E. ★ Partial differential equations. (English summary) **98b:35002a**
— ★ Partial differential equations. I. (English summary) **98b:35002b**
— ★ Partial differential equations. II. (English summary) **98b:35003**
— ★ Partial differential equations. III. (English summary) **98k:35001**
Umalatov, S. D. On a Köthe space associated with a differential operator. (Russian) **98m:46042**
Vityuk, A. N. Partial averaging for partial differential inclusions of fractional orders. (Russian. Russian summary) **98i:35220**
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Wang, Yang[3] *see* **Lagarias, Jeffrey C., 98b:47011b**
Wu, Cong Xin (*with* Fu, Yong Qiang) Generalized Morrey spaces, generalized Campanato spaces, and their applications. I. (Chinese. English and Chinese summaries) **98c:46067**
Yang, Dachun *see* **Lu, Shanzhen, 98i:46028**
Yin, Jing Xue Nonlinear degenerate parabolic equations and some related function spaces. (Chinese. English and Chinese summaries) **98d:35120**

46N30 Applications in probability theory and statistics

Gal, Sorin G. (*with* Villena Muñoz, Armando R.) Random condensation of singularities and applications. (English summary) **98k:46127**
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Averkamp, Roland Conditions for the completeness of the spectral domain of a harmonizable process. (English summary) **98j:60057**
Benth, Fred Espen (*with* Potthoff, Jürgen) On the martingale property for generalized stochastic processes. (English summary) **98d:60085**
Berezanskiĭ, Yuriĭ Makarovich Infinite-dimensional non-Gaussian analysis and generalized shift operators. (Russian) **98j:46043**
Bobkov, S. G. (*with* Ledoux, M.) Poincaré's inequalities and Talagrand's concentration phenomenon for the exponential distribution. (English summary) **98e:60026**
Bojdecki, Tomasz (*with* Gorostiza, Luis G.; Nualart, David) Time-localization of random distributions on Wiener space. (English summary) **98g:60082**
Daletskiĭ, Yuriĭ L'vovich Introduction to non-Gaussian stochastic analysis. (English summary) **98d:60101**
Gorostiza, Luis G. *see* **Bojdecki, Tomasz; et al., 98g:60082**
Holden, Helge (*with* Øksendal, Bernt; Ubøe, Jan; Zhang, Tu Sheng) ★ Stochastic partial differential equations. (English summary) **98f:60124**
Kamont, Anna Discrete characterization of Besov spaces and its applications to stochastics. (English summary) **98k:46059**
Kubo, Izumi Weighted number operators and associated processes in white noise analysis. **98b:60073**
Ledoux, M. *see* **Bobkov, S. G., 98e:60026**
Liu, Pei De Convexity in complex spaces and inequalities for Hardy martingales. (Chinese. English and Chinese summaries) **98i:42010**
Norin, N. V. ★ The extended stochastic integral in linear spaces with differentiable measures and related topics. **98i:60049**
Nualart, David *see* **Bojdecki, Tomasz; et al., 98g:60082**
Øksendal, Bernt *see* **Holden, Helge; et al., 98f:60124**
Potthoff, Jürgen *see* **Benth, Fred Espen, 98d:60085**
Privault, Nicolas Calcul des variations stochastique pour la mesure de densité uniforme. (English and French summaries) [Stochastic calculus of variations for the uniform density measure] **98k:60091**
Rozanov, Yu. A. ★ Случайные поля и стохастические уравнения с частными производными. (Russian. English and Russian summaries) [Random fields and stochastic partial differential equations] **98j:60072**
Schwartz, Laurent Errata to: "Banach semimartingales: the three-operator theorem" [in *Séminaires de Probabilités, XXVIII*, 1–20, Lecture Notes in Math., 1583, Springer, Berlin, 1994; MR 96e:60010]. (French) (*see* **98c:60001**)
Tsukada, Makoto Operator algebraic aspects for sufficiency. **98g:62012**
Uboe, Jan *see* **Holden, Helge; et al., 98f:60124**
Zhang, Tu Sheng *see* **Holden, Helge; et al., 98f:60124**

46N40 Applications in numerical analysis [see also 65Jxx]

Items with secondary classifications in 46N40

Bamberger, Alain (*with* Glowinski, Roland; Tran, Quang Huy) A domain decomposition method for the acoustic wave equation with discontinuous coefficients and grid change. (English summary) **98c:65161**
Bojović, Dejan (*with* Jovanović, Boško S.) Convergence of a finite difference method for the heat equation—interpolation technique. (English summary) **98m:65151**
Darken, C. *see* **Donahue, M. J.; et al., 98c:41051**
Delvos, Franz-Jürgen Cardinal interpolation in harmonic Hilbert spaces. **98i:41050**
Donahue, M. J. (*with* Gurvits, Leonid; Darken, C.; Sontag, Eduardo D.) Rates of convex approximation in non-Hilbert spaces. (English summary) **98c:41051**
D'yakonov, E. G. Operator problems in strengthened Sobolev spaces and numerical methods for them. (English summary) (*see* **98d:65007**)
Dyn, Nira (*with* Narcowich, Francis J.; Ward, Joseph D.) A framework for interpolation and approximation on Riemannian manifolds. (English summary) **98m:41003**
Glowinski, Roland *see* **Bamberger, Alain; et al., 98c:65161**
Gurvits, Leonid *see* **Donahue, M. J.; et al., 98c:41051**
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Hermann, Martin (*with* Kunkel, Peter; Middelmann, W.) Augmented systems for the computation of singular points in Banach space problems. (English summary) **98m:47102**
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— (*with* Popović, Branislav Zoran) Some convergence rate estimates for finite difference schemes. (English summary) **98m:65177**
— *see also* **Bojović, Dejan, 98m:65151**
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Narcowich, Francis J. *see* **Dyn, Nira; et al., 98m:41003**
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46N50 Applications in quantum physics

Lenczewski, Romuald Quantum random walk for $U_q(\mathrm{su}(2))$ and a new example of quantum noise. (English summary) **98d:46083**

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Albeverio, Sergio (*with* Gottschalk, Hanno; Wu, Jiang Lun) Convoluted generalized white noise, Schwinger functions and their analytic continuation to Wightman functions. (English summary) **98a:81109**
Aldrovandi, R. (*with* Saeger, L. A.) Fourier duality as a quantization principle. (English summary) **98e:81097**
Arveson, William Path spaces, continuous tensor products, and E_0-semigroups. (English summary) **98h:46074**
Becker, Claas Reflection positivity for quantum vector fields. (English summary) **98f:81170**
Belavkin, V. P. The interplay of classical and quantum stochastics: diffusion, measurement and filtering. (English summary) **98k:81131**
— Quantum stochastic positive evolutions: characterization, construction, dilation. (English summary) **98k:81132**
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Benth, Fred Espen (*with* Potthoff, Jürgen) On the martingale property for generalized stochastic processes. (English summary) **98d:60085**
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Cassinelli, Gianni (*with* De Vito, Ernesto; Levrero, Alberto) On the decompositions of a quantum state. (English summary) **98f:81028**
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— *see also* **Errata: "On the GNS representation of generalized free fields with indefinite metric", 98b:81127b**
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Honegger, Reinhard (*with* Rieckers, Alfred) Squeezed variances of smeared boson fields. (English summary) **98f:81395**
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Kholevo, A. S. Excessive mappings, "arrival times", and perturbations of dynamical semigroups. (Russian. Russian summary) **98k:47085**
— Stochastic differential equations in Hilbert space and quantum Markovian evolutions. (English summary) **98f:60111**
Khrennikov, Andrei A noncommutative analogue of functional superanalysis. (Russian. English and Russian summaries) **98g:58015**
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von Neumann, John ★ Mathematical foundations of quantum mechanics. (English summary) **98b:81006**
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Obata, Nobuaki White noise approach to quantum martingales. **98m:81079**
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Vourdas, A. The growth of Bargmann functions and the completeness of sequences of coherent states. (English summary) **98h:81046**
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"On the GNS representation of generalized free fields with indefinite metric" Errata: "On the GNS representation of generalized free fields with indefinite metric" [Rep. Math. Phys. **38** (1996), no. 1, 67–83; MR 98b:81127a] by G. Hofmann. **98b:81127b**

46N55 Applications in statistical physics

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Momont, B. (*with* Verbeure, A.; Zagrebnov, V. A.) Algebraic structure of quantum fluctuations. (English summary) **98k:82022**
Ruskai, Mary Beth Beyond strong subadditivity? Improved bounds on the contraction of generalized relative entropy. (English summary) (*see* **98c:82001**)
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46N99 None of the above, but in this section

Duddeck, F. M. E. Fourier transform in bounded domains. (English and Italian summaries) (*see* **98h:73004**)

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Bresler, Yoram *see* **Willis, N. Parker, 98e:94005** *and* **98e:94006**
Duma, Adrian Zeeman's theorem in nondecomposable spaces. (English summary) **98j:46019**
Kimura, Hidenori ★ Chain-scattering approach to H^∞ control. (English summary) **98c:93005**
Menegatto, V. A. Interpolation on the complex Hilbert sphere using positive definite and conditionally negative definite kernels. **98i:30052**
Willis, N. Parker (*with* Bresler, Yoram) Lattice-theoretic analysis of time-sequential sampling of spatiotemporal signals. I. (English summary) **98e:94005**
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46Sxx Other (nonclassical) types of functional analysis [see also 47Sxx]

46S10 Functional analysis over fields other than R or C or the quaternions; non-Archimedean functional analysis [see also 12J25, 32P05]

Aguayo, José (*with* De Grande-De Kimpe, Nicole; Navarro, Samuel) Strict locally convex topologies on $BC(X, \mathbb{K})$. **98i:46076**
Araujo, Jesús (*with* Martinez-Maurica, J.) Isometries between non-Archimedean spaces of continuous functions. (English summary) **98h:46082**
— Isometries in spaces of non-Archimedean continuous functions. **98d:46084**
Beckenstein, Edward (*with* Narici, Lawrence; Schikhof, W. H.) Isometries between valued fields. (English summary) **98g:46112**
Beloyiannis, A. *see* **Katsaras, A. K., 98e:46094** *and* **98h:46083**
Boussaf, Kamal (*with* Escassut, Alain) Closed homomorphisms of algebras of analytic elements. (English summary) **98e:46092**
Das, Asok Kumar (*with* Mazumdar, A. C.) On the space of entire functions of several variables over a non-Archimedean field with coefficients in a non-Archimedean Banach algebra. **98c:46164**
De Grande-De Kimpe, Nicole (*with* Kąkol, Jerzy; Pérez-García, Cristina; Schikhof, W. H.) p-adic locally convex inductive limits. **98i:46077**
— (*with* Kąkol, Jerzy; Pérez-García, Cristina) On compactoids in (LB)-spaces. (English summary) **98m:46097**
— *see also* **Aguayo, José; et al., 98i:46076**
Diarra, Bertin Base de Mahler et autres. [The Mahler basis and other bases] **98e:46093**
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Gilsdorf, Thomas E. (*with* Kąkol, Jerzy) On some non-Archimedean closed graph theorems. (English summary) **98k:46128**
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— *see also* **De Grande-De Kimpe, Nicole; et al., 98i:46077; Gilsdorf, Thomas E., 98k:46128** *and* **De Grande-De Kimpe, Nicole; et al., 98m:46097**
Katsaras, A. K. (*with* Beloyiannis, A.) Non-Archimedean weighted spaces of continuous functions. (English and Italian summaries) **98e:46094**
— (*with* Beloyiannis, A.) On non-Archimedean weighted spaces of continuous functions. (English summary) **98h:46083**
— (*with* Pérez-García, Cristina) A_0-nuclear operators and A_0-nuclear spaces in p-adic analysis. (English summary) **98f:46063**
Lazraq Khlass, A. (*with* Oudadess, Mohamed) Structure des algèbres de valuation discrete. (English summary) [Structure of discrete valuation algebras] **98m:46099**

Leonov, N. N. Widths in non-Archimedean normed spaces. (Russian. English and Russian summaries)
Mainetti, Nicolas Algebras of abstract analytic elements. (English summary) **98e:46095**
Martinez-Maurica, J. *see* **Araujo, Jesús, 98h:46082**
Mazumdar, A. C. *see* **Das, Asok Kumar, 98c:46164**
Narici, Lawrence *see* **Beckenstein, Edward; et al., 98g:46112**
Natarajan, P. N. On a generalized product of certain sequences over non-Archimedean fields. II. (English summary) **98f:46064**
— Some Steinhaus type theorems over valued fields. **98f:46065**
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Oortwijn, Saskia (*with* Schikhof, W. H.) Locally convex modules over the unit disk. (English summary) **98d:46085**
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Ren, Guanshen Non-Archimedean normed linear spaces. (English summary) **98h:46084**
Saleemullah, M. S. *see* **Rangan, G., 98d:46086**
Sarmant-Durix, Marie-Claude Analytic functions that are p-th roots of rational functions. (English summary) **98e:46097**
Schikhof, W. H. *see* **Oortwijn, Saskia, 98d:46085**; **Beckenstein, Edward; et al., 98g:46112** *and* **De Grande-De Kimpe, Nicole; et al., 98i:46077**
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Somasundaram, D. On a theorem of Robinson for non-Archimedian Banach spaces. (English summary) **98b:46100**
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Woodcock, C. F. Divisibility and squares in a p-adic convolution algebra. **98g:46113**

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Boussaf, Kamal Décomposition de Motzkin dans une algèbre d'éléments analytiques. (French summary) [Motzkin decomposition in an algebra of analytic elements] **98f:12008**
Boutabaa, Abdelbaki (*with* Escassut, Alain) Uniqueness of p-adic meromorphic functions. (English and French summaries) **98m:30064**
Dzinotyiweyi, H. A. M. (*with* van Rooij, Arnoud C. M.) Non-Archimedean harmonic analysis on topological semigroups. II. (English summary) **98h:11102**
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— *see also* **Boutabaa, Abdelbaki, 98m:30064**
Evans, Steven N. p-adic white noise, chaos expansions, and stochastic integration. (English summary) **98e:60083**
Haddad, Labib *see* **Escassut, Alain; et al., 98g:12012**
(Kąkol, Jerzy) *see* **p-adic functional analysis, 98b:46006**
Khrennikov, Andrei p-adic description of chaos. (English summary) **98f:82003**
— The Einstein-Podolsky-Rosen paradox and p-adic probability theory. (Russian) **98f:81047**
— p-adic stochastic hidden variable model. (English summary) **98m:81010**
Natarajan, P. N. Some Tauberian theorems in non-Archimedean fields. (English summary) **98f:40005**
(Pérez-García, Cristina) *see* **p-adic functional analysis, 98b:46006**
Perović, Žikica On some expansions of hyper-real fields. (English summary) **98m:03077**
van Rooij, Arnoud C. M. *see* **Dzinotyiweyi, H. A. M., 98h:11102**
Sarmant-Durix, Marie-Claude *see* **Escassut, Alain; et al., 98g:12012**
(Schikhof, W. H.) *see* **p-adic functional analysis, 98b:46006**
Sirajudeen, S. M. (*with* Sulaiman, A.) Matrix transformations of some sequence spaces over non-Archimedian fields. (English summary) **98a:40007**
Sulaiman, A. *see* **Sirajudeen, S. M., 98a:40007**

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p-adic Functional Analysis ★ p-adic functional analysis. **98b:46006**
Nijmegen ★ p-adic functional analysis. **98b:46006**
p-adic functional analysis ★ p-adic functional analysis. **98b:46006**

46S20 Nonstandard functional analysis [see also 03H05]

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Emel'yanov, Èduard Yu. Invariant homomorphisms of nonstandard extensions of Boolean algebras and vector lattices. (Russian. Russian summary) **98g:06022**
Henson, C. Ward (*with* Kalton, Nigel J.; Peck, N. Tenney; Tereščák, Ignác; Zlatoš, Pavol) Some Ramsey type theorems for normed and quasinormed spaces. (English summary) **98a:46010**
Iovino, José Definability in functional analysis. (English summary) **98i:03046**
Kalton, Nigel J. *see* **Henson, C. Ward; et al., 98a:46010**
Ortiz, C. E. Approximate truth and nonstandard analysis. (English summary) (*see* **98h:03084**)
Peck, N. Tenney *see* **Henson, C. Ward; et al., 98a:46010**
Tereščák, Ignác *see* **Henson, C. Ward; et al., 98a:46010**
Vakil, Nader Pseudo-uniform convergence, a nonstandard treatment. (English summary) **98e:46029**
Wu, Kangping The strict positivity in a nonstandard hull and its applications to economics. (English summary) **98b:46011**
Zlatoš, Pavol *see* **Henson, C. Ward; et al., 98a:46010**

46S30 Constructive functional analysis [see also 03F65]

Items with secondary classifications in 46S30

Banaschewski, Bernhard (*with* Mulvey, Christopher J.) A constructive proof of the Stone-Weierstrass theorem. (English summary) **98d:46028**
Mulvey, Christopher J. *see* **Banaschewski, Bernhard, 98d:46028**

46S40 Fuzzy functional analysis [see also 04A72]

Beg, Ismat (*with* Islam, Misbah Ul) Fuzzy Archimedean spaces. (English summary) **98h:46085**
— σ-complete fuzzy Riesz spaces. (English summary) **98d:46087**
Choudhury, Ajanta *see* **Das, N. R.; et al., 98c:46165**
Das, N. R. (*with* Das, Pankaja; Choudhury, Ajanta) Absolute value like fuzzy real number and fuzzy real-valued sequence space. (English summary) **98c:46165**
Das, Pankaja *see* **Das, N. R.; et al., 98c:46165**
Fang, Jin Xuan On local bases of fuzzy topological vector spaces. (English summary) **98c:46166**
— The continuity of fuzzy linear order-homomorphism. (English summary) **98i:46078**
Hong, Dug Hun *see* **Hwang, Seok Yoon**
Hwang, Seok Yoon (*with* Hong, Dug Hun) The convergence of T-sum of fuzzy numbers on Banach spaces. (English summary)
Islam, Misbah Ul *see* **Beg, Ismat, 98h:46085**
Ramakrishnan, T. V. Fuzzy semi-inner product of fuzzy points. (English summary) **98g:46114**

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Ishikawa, Shiro Fuzzy inferences by algebraic method. (English summary) **98f:81031**
Kuroki, Nobuaki Rough sets and convex subsets in a linear space. (English summary) **98m:15003**
Mordukhovich, Boris S. (*with* Shao, Yongheng) Fuzzy calculus for coderivatives of multifunctions. **98m:49038**
Shao, Yongheng *see* **Mordukhovich, Boris S., 98m:49038**

46S50 Functional analysis in probabilistic metric linear spaces

Alsina, Claudi (*with* Schweizer, Berthold; Sklar, Abe) Continuity properties of probabilistic norms. **98c:46167**
— (*with* Schweizer, Berthold; Sempi, Carlo; Sklar, Abe) On the definition of a probabilistic inner product space. (English and Italian summaries) **98j:46085**
Guo, Tie Xin Random dual spaces. (Chinese. English and Chinese summaries) **98h:46086**
— A criterion for a random normed module to be random reflexive. (Chinese. English and Chinese summaries)
Lin, Xi Convex sets and convexities in random normed linear spaces. (English and Chinese summaries) **98b:46101**
Liu, Cang Yi *see* **Zhu, Lin Hu**
Schweizer, Berthold *see* **Alsina, Claudi; et al., 98c:46167** *and* **98j:46085**
Sempi, Carlo *see* **Alsina, Claudi; et al., 98j:46085**
Sklar, Abe *see* **Alsina, Claudi; et al., 98c:46167** *and* **98j:46085**
You, Zhao-yong (*with* Zhu, Lin Hu) Random conjugate spaces and random duals. (English and Chinese summaries) **98d:46088**
Zhu, Lin Hu (*with* Liu, Cang Yi) Random normed modules. (Chinese. Chinese summary)
— *see also* **You, Zhao-yong, 98d:46088**

46S99 None of the above, but in this section

Items with secondary classifications in 46S99

Dales, H. Garth (*with* Woodin, W. Hugh) ★ Super-real fields. **98b:12005**
Iovino, José Definability in functional analysis. (English summary) **98i:03046**
Khrennikov, Andrei A noncommutative analogue of functional superanalysis. (Russian. English and Russian summaries) **98g:58015**
Litvinov, G. L. (*with* Maslov, V. P.) Idempotent mathematics: the correspondence principle and its computer realizations. (Russian) **98b:46098**
Maslov, V. P. *see* **Litvinov, G. L., 98b:46098**
Rätz, Jürg Orthogonally additive mappings on free inner product Z-modules. (English summary) **98i:20056**
Woodin, W. Hugh *see* **Dales, H. Garth, 98b:12005**

47–XX Operator theory

47–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 47–01

Axler, Sheldon ★ Linear algebra done right. **98i:15001**
Fuhrmann, Paul A. ★ A polynomial approach to linear algebra. **98a:15001**
Hirsch, Francis (*with* Lacombe, Gilles) ★ Éléments d'analyse fonctionnelle. (French. French summary) [Elements of functional analysis] **98c:46001**
Kadison, Richard V. (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. I. **98f:46001a**
— (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. II. **98f:46001b**
Kutateladze, Semën Samsonovich ★ Основы функционального анализа. (Russian. Russian summary) [Foundations of functional analysis] **98a:46001**
Lacombe, Gilles *see* **Hirsch, Francis**, **98c:46001**
Meise, Reinhold (*with* Vogt, Dietmar) ★ Introduction to functional analysis. (English summary) **98g:46001**
(Ramanujan, M. S.) *see* **Meise, Reinhold**, **98g:46001**
Ringrose, John R. *see* **Kadison, Richard V.**, **98f:46001a** *and* **98f:46001b**
Shilov, G. E. ★ Elementary functional analysis. (English summary) **98a:46002**
(Silverman, Richard A.) *see* **Shilov, G. E.**, **98a:46002**
Sobczyk, Garret The generalized spectral decomposition of a linear operator. **98c:15003**
Vogt, Dietmar *see* **Meise, Reinhold**, **98g:46001**

47–02 Research exposition (monographs, survey articles)

Chen, Guanrong *see* **Chen, Mingjun; et al.**, **98h:47001**
Chen, Mingjun (*with* Chen, Zhongying; Chen, Guanrong) ★ Approximate solutions of operator equations. **98h:47001**
Chen, Zhongying *see* **Chen, Mingjun; et al.**, **98h:47001**
Eschmeier, Jörg (*with* Putinar, Mihai) ★ Spectral decompositions and analytic sheaves. **98h:47002**
Hislop, P. D. (*with* Sigal, Israel M.) ★ Introduction to spectral theory. (English summary) **98h:47003**
Hu, Shouchuan (*with* Papageorgiou, Nikolaos S.) ★ Handbook of multivalued analysis. Vol. I. (English summary) **98k:47001**
Hyers, Donald H. (*with* Isac, George; Rassias, Themistocles M.) ★ Topics in nonlinear analysis & applications. **98g:47001**
Isac, George *see* **Hyers, Donald H.; et al.**, **98g:47001**
van Neerven, Jan ★ The asymptotic behaviour of semigroups of linear operators. (English summary) **98d:47001**
Papageorgiou, Nikolaos S. *see* **Hu, Shouchuan**, **98k:47001**
Pisier, Gilles ★ Similarity problems and completely bounded maps. **98d:47002**
Putinar, Mihai *see* **Eschmeier, Jörg**, **98h:47002**
Rassias, Themistocles M. *see* **Hyers, Donald H.; et al.**, **98g:47001**
Sigal, Israel M. *see* **Hislop, P. D.**, **98h:47003**

Items with secondary classifications in 47–02

Bhatia, Rajendra ★ Matrix analysis. (English summary) **98i:15003**
Davidson, Kenneth R. Polynomially bounded operators, a survey. **98e:47033**
Kadison, Richard V. (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. I. **98f:46001a**
— (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. II. **98f:46001b**
Ringrose, John R. *see* **Kadison, Richard V.**, **98f:46001a** *and* **98f:46001b**
Rodman, Leiba Matrix functions. **98a:15045**

47–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 47–03

Arov, Damir Zyamovich *see* **Livšic, Moshe S.; et al.**, (**98f:47001**)
Davidson, Kenneth R. Polynomially bounded operators, a survey. **98e:47033**
Dubovoĭ, V. K. *see* **Livšic, Moshe S.; et al.**, (**98f:47001**)
Katsnelson, Victor Emanuelovich *see* **Livšic, Moshe S.; et al.**, (**98f:47001**)
Livšic, Moshe S. (*with* Arov, Damir Zyamovich; Sakhnovich, Lev Aronovich; Nudelman, Adolf Abramovich; Dubovoĭ, V. K.; Katsnelson, Victor Emanuelovich) Vladimir Petrovich Potapov as remembered by colleagues, friends and former students. (*see* **98f:47001**)
Nudelman, Adolf Abramovich *see* **Livšic, Moshe S.; et al.**, (**98f:47001**)
(Potapov, Vladimir Petrovich) *see* **Livšic, Moshe S.; et al.**, (**98f:47001**)
Sakhnovich, Lev Aronovich *see* **Livšic, Moshe S.; et al.**, (**98f:47001**)
Smithies, Frank The shaping of functional analysis. **98c:01037**

47–06 Proceedings, conferences, collections, etc.

(Cowen, Carl C.) *see* **Studies on composition operators**, **98h:47005**
(Dym, Harry) *see* **Topics in interpolation theory**, **98f:47001**
(Fritzsche, Bernd) *see* **Topics in interpolation theory**, **98f:47001**
(Jafari, Farhad) *see* **Studies on composition operators**, **98h:47005**
(Janas, Jan) *see* **Linear operators**, **98a:47001**
(Katsnelson, Victor Emanuelovich) *see* **Topics in interpolation theory**, **98f:47001**
(Kirstein, Bernd) *see* **Topics in interpolation theory**, **98f:47001**
(MacCluer, Barbara D.) *see* **Studies on composition operators**, **98h:47005**
(Porter, A. Duane) *see* **Studies on composition operators**, **98h:47005**
(Potapov, Vladimir Petrovich) *see* **Topics in interpolation theory**, **98f:47001**
(Szafraniec, Franciszek Hugon) *see* **Linear operators**, **98a:47001**
(Zemánek, Jaroslav) *see* **Linear operators**, **98a:47001**

Items listed otherwise than by author

Anniversary:
  Birth of Potapov, Vladimir Petrovich ★ Topics in interpolation theory. **98f:47001**
Conference:
  Rocky Mountain Mathematics Consortium ★ Studies on composition operators. **98h:47005**
Contemporary Mathematics ★ Studies on composition operators. **98h:47005**
Laramie, WY ★ Studies on composition operators. **98h:47005**
Leipzig ★ Topics in interpolation theory. **98f:47001**
Linear operators ★ Linear operators. **98a:47001**
Recent topics in operator theory concerning the structure of operators ★ Sayōso no kōzō ni kan suru sayōso ron no saikin no wadai. (Japanese) [Recent topics in operator theory concerning the structure of operators] **98h:47004**
Studies on composition operators ★ Studies on composition operators. **98h:47005**
Symposium:
  Recent Topics in Operator Theory Concerning the Structure of Operators ★ Sayōso no kōzō ni kan suru sayōso ron no saikin no wadai. (Japanese) [Recent topics in operator theory concerning the structure of operators] **98h:47004**
Topics in interpolation theory ★ Topics in interpolation theory. **98f:47001**
Warsaw ★ Linear operators. **98a:47001**
Workshop:
  Recent Developments in Schur Analysis ★ Topics in interpolation theory. **98f:47001**

Items with secondary classifications in 47–06

(Aulbach, Bernd) *see* **Six lectures on dynamical systems**, **98a:58003**
(Clément, Philippe) *see* **Dedicated to the memory of Pierre Grisvard**
(Colonius, F.) *see* **Six lectures on dynamical systems**, **98a:58003**
(Drábek, Pavel) *see* **Topological and variational methods for nonlinear boundary value problems**, **98e:00023**
(Fuhrmann, Paul A.) *see* **Operators, systems, and linear algebra**, **98k:93005**
(Glazman, I. M.) *see* **New results in operator theory and its applications**, **98e:00028**
(Gohberg, Israel) *see* **New results in operator theory and its applications**, **98e:00028**
(Grisvard, Pierre) *see* **Dedicated to the memory of Pierre Grisvard**
(Helmke, Uwe) *see* **Operators, systems, and linear algebra**, **98k:93005**
(Invernizzi, Sergio) *see* **Dedicated to the memory of Pierre Grisvard**
(Katavolos, Aristides) *see* **Operator algebras and applications**, **98b:46004**
(Lyubich, Yu. I.) *see* **New results in operator theory and its applications**, **98e:00028**
(Mitidieri, Enzo) *see* **Dedicated to the memory of Pierre Grisvard**
(Prätzel-Wolters, Dieter) *see* **Operators, systems, and linear algebra**, **98k:93005**
(Rákosník, Jiří) *see* **Function spaces, differential operators and nonlinear analysis**, **98e:00019**
(Ramírez de Arellano, Enrique) *see* **Operator theory for complex and hypercomplex analysis**, **98f:00026**
(Salinas, Norberto) *see* **Operator theory for complex and hypercomplex analysis**, **98f:00026**
(Shapiro, M. V.) *see* **Operator theory for complex and hypercomplex analysis**, **98f:00026**
(Vasilevskiĭ, N. L.) *see* **Operator theory for complex and hypercomplex analysis**, **98f:00026**
(Zerz, Eva) *see* **Operators, systems, and linear algebra**, **98k:93005**

Items listed otherwise than by author

Athens ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 7. **98i:00032**
Augsburg ★ Six lectures on dynamical systems. **98a:58003**
Cholin ★ Topological and variational methods for nonlinear boundary value problems. **98e:00023**
Conference:
  Function Spaces, Differential Operators and Nonlinear Analysis ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
  Operator Algebras and Applications ★ Operator algebras and applications. **98b:46004**
  Operator Theory for Complex and Hypercomplex Analysis ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Congress:
  Nonlinear Analysts ★ Proceedings of the Second World Congress of Nonlinear Analysts. Part 7. **98i:00032**
Contemporary Mathematics ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Dedicated to the memory of Pierre Grisvard ★ {Dedicated to the memory of Pierre Grisvard}.
Festschrift:
  Fuhrmann, Paul A. ★ Operators, systems, and linear algebra. **98k:93005**
Function spaces, differential operators and nonlinear analysis ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
Kaiserslautern ★ Operators, systems, and linear algebra. **98k:93005**
Memorial Issue:
  Grisvard, Pierre ★ {Dedicated to the memory of Pierre Grisvard}.
Memorial Volume:
  Glazman, I. M. ★ New results in operator theory and its applications. **98e:00028**
Mexico City ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
NATO Advanced Study Institute:
  Operator Algebras and Applications ★ Operator algebras and applications. **98b:46004**
New results in operator theory and its applications ★ New results in operator theory and its applications. **98e:00028**
Operator algebras and applications ★ Operator algebras and applications. **98b:46004**
Operator theory for complex and hypercomplex analysis ★ Operator theory for complex and hypercomplex analysis. **98f:00026**
Operators, systems, and linear algebra ★ Operators, systems, and linear algebra. **98k:93005**
Paseky nad Jizerou ★ Function spaces, differential operators and nonlinear analysis. **98e:00019**
Proceedings:
  Congress of Nonlinear Analysts ★ Proceedings of the Second World Congress of

Proceedings: (*cont'd.*)
Nonlinear Analysts. Part 7. **98i:00032**
Samos ★ Operator algebras and applications. **98b:46004**
Seminar:
Partial Differential Equations ★ Topological and variational methods for nonlinear boundary value problems. **98e:00023**
Six lectures on dynamical systems ★ Six lectures on dynamical systems. **98a:58003**
Topological and variational methods for nonlinear boundary value problems ★ Topological and variational methods for nonlinear boundary value problems. **98e:00023**
Workshop:
Dynamical Systems ★ Six lectures on dynamical systems. **98a:58003**
Operators, Systems, and Linear Algebra: Three Decades of Algebraic Systems Theory ★ Operators, systems, and linear algebra. **98k:93005**

47Axx General theory of linear operators

Davidson, Kenneth R. (*with* Paulsen, Vern I.) Polynomially bounded operators. (English summary) **98d:47003**
Paulsen, Vern I. *see* **Davidson, Kenneth R., 98d:47003**

Items with secondary classifications in 47Axx
Pisier, Gilles ★ Similarity problems and completely bounded maps. **98d:47002**

47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)

Abdrakhmanov, V. G. (*with* Smolin, Yu. N.) On the reconstruction of an operator from its conjugate operator. (Russian) **98b:47001**
Abramovich, Yuri A. (*with* Aliprantis, Charalambos D.; Polyrakis, I. A.) Some remarks on surjective and bounded below operators. (English summary) **98b:47002**
Aliprantis, Charalambos D. *see* **Abramovich, Yuri A.; et al., 98b:47002**
Antonevich, Anatoliĭ B. (*with* Buraczewski, Adam; Radyno, Ya.) On closability of nonclosable operators. (English summary) **98h:47006**
Bu, Qing Ying (*with* Wu, Cong Xin) Unconditionally convergent series of operators on Banach spaces. (English summary) **98c:47001**
Buckholtz, Don Inverting the difference of Hilbert space projections. **98a:47002**
Buraczewski, Adam *see* **Antonevich, Anatoliĭ B.; et al., 98h:47006**
Burlando, Laura On the iterates of a paracomplete operator. (English summary) **98b:47003**
Cao, Wei Ping (*with* Ma, Ji Pu) The pointwise continuity of the M-P generalized inverses A_s^+. (Chinese. English and Chinese summaries) **98i:47001**
Chengri, Cui *see* **Li, Rong Lu; et al., 98m:47001**
Cho, Min-Hyung *see* **Li, Rong Lu; et al., 98m:47001**
Cross, R. W. The essential state diagram for linear relations in normed spaces. (English summary) **98e:47001**
Ding, Jiu (*with* Huang, Liang Jiao) On the continuity of generalized inverses of linear operators in Hilbert spaces. (English summary) **98k:47002**
Gohberg, Israel (*with* Goldberg, Seymour; Krupnik, Naum) Traces and determinants of linear operators. (English summary) **98d:47004**
— (*with* Goldberg, Seymour; Krupnik, Naum) Hilbert-Carleman and regularized determinants for linear operators. (English summary) **98d:47005**
Goldberg, Seymour *see* **Gohberg, Israel; et al., 98d:47004** *and* **98d:47005**
Huang, Liang Jiao *see* **Ding, Jiu, 98k:47002**
Joó, Istvan Some resonance theorems. **98d:47006**
Koliha, J. J. (*with* Poon, Pak Wai) On West and Stampfli decomposition of operators. (English summary) **98f:47002**
Krupnik, Naum *see* **Gohberg, Israel; et al., 98d:47004** *and* **98d:47005**
Li, Rong Lu (*with* Chengri, Cui; Cho, Min-Hyung) Improvements of Thorp-Rolewicz theorems on operator series. (English summary) **98m:47001**
Lu, Yu Feng (*with* Yang, Dian Jun; Tan, Zhan Tian) Convergence theorems for subseries of series of bounded linear operators. (Chinese. English and Chinese summaries) **98g:47002**
Ma, Ji Pu *see* **Cao, Wei Ping, 98i:47001**
Mate, László On the infinite product of operators in Hilbert space. (English summary) **98e:47002**
Polyrakis, I. A. *see* **Abramovich, Yuri A.; et al., 98b:47002**
Poon, Pak Wai *see* **Koliha, J. J., 98f:47002**
Radyno, Ya. *see* **Antonevich, Anatoliĭ B.; et al., 98h:47006**
Schmoeger, Christoph On decomposably regular operators. (English summary) **98d:47007**
Smolin, Yu. N. *see* **Abdrakhmanov, V. G., 98b:47001**
Tan, Zhan Tian *see* **Lu, Yu Feng; et al., 98g:47002**
Tsar'kov, I. G. Theorems on smoothness of right-inverse operator. (English summary) **98a:47003**
Villanueva Diez, Ignacio Completely continuous multilinear operators on $C(K)$-spaces.
Wang, Shi Qiang Jordan normal forms of infinite matrices. (Chinese) **98d:47008**
Wu, Cong Xin *see* **Bu, Qing Ying, 98c:47001**
Yang, Dian Jun (*with* Yang, Shan Shan) A subseries convergence theorem for series of bounded linear operators. (Chinese. English and Chinese summaries)
— *see also* **Lu, Yu Feng; et al., 98g:47002**
Yang, Shan Shan *see* **Yang, Dian Jun**
Zhuravlev, V. F. Generalizations of a theorem of S. M. Nikol'skiĭ to the case of normally solvable operators in Hilbert spaces. (Russian) **98j:47001**
Zuidwijk, Rob Complementary triangular forms. (English summary) **98d:47009**

Items with secondary classifications in 47A05
Abian, Alexander (*with* Poon, Yiu Tung) Additive and linear mappings in normed vector spaces. (English summary)
Badea, Catalin (*with* Mbekhta, Mostafa) Generalized inverses and the maximal radius of regularity of a Fredholm operator. (English summary) **98e:47018**
Berkani, M. (*with* Ouahab, A.) Théorème de l'application spectrale pour le spectre essentiel quasi-Fredholm. (English and French summaries) [Spectral mapping theorem for the quasi-Fredholm essential spectrum] **98c:47002**
Chen, Guo Liang[1] (*with* Xue, Yifeng) Perturbation analysis for the operator equation $Tx = b$ in Banach spaces. (English summary) **98k:47019**
Chen, Yu Qing *see* **Zhang, Shi Sheng; et al., 98c:46043**
Djakov, P. (*with* Yurdakul, M.) Strictly singular operators and isomorphisms of Cartesian products. **98j:46004**
Fernandez, Cecilia S. A counterexample to the Bartle-Graves selection theorem for multilinear maps. (English summary) **98k:46021**
Holub, James R. The equivalence of frames. (English summary) **98c:46014**
Jeganathan, P. On some characterizations of Tauberian relations. (English summary) **98k:47040**
Koliha, J. J. A generalized Drazin inverse. **98b:46065**
Kominek, Zygfryd Translations in normed spaces. (English summary) **98c:46024**
Kraus, Jon (*with* Larson, David R.) Preannihilators, the operator approximation property and dual products. (English summary) **98f:46014**
Larson, David R. *see* **Kraus, Jon, 98f:46014**
Lee, Byung Soo *see* **Zhang, Shi Sheng; et al., 98c:46043**
Mbekhta, Mostafa *see* **Badea, Catalin, 98e:47018**
Nakamoto, Ritsuo A formula for the minimum gap of operators. (English summary) **98a:47023**
Ostrovskiĭ, M. I. A remark on the analytic representability of mappings that are inverse to integral operators. (Russian. English, Russian and Ukrainian summaries) **98k:47064**
Ouahab, A. *see* **Berkani, M., 98c:47002**
Pap, Endre (*with* Swartz, Charles) A locally convex version of adjoint theorem. (English summary) **98d:46004**
— (*with* Swartz, Charles) The adjoint theorem on A-spaces. (English summary) **98d:46005**
Poon, Yiu Tung *see* **Abian, Alexander**
Qiu, Jing Hui A generalization of the Lax theorem in locally convex spaces. (Chinese. Chinese summary) **98h:46002**
Sengupta, Ashok Multifunction and generalized inverse. (English summary) **98f:54022**
Silbermann, Bernd Asymptotic Moore-Penrose inversion of Toeplitz operators. (English summary) **98b:47038**
Swartz, Charles *see* **Pap, Endre, 98d:46004** *and* **98d:46005**
Takamura, Masaki (*with* Takemoto, Hideo) The numerical radius of an infinite directed regular graph. (Japanese) (*see* **98h:47004**)
Takemoto, Hideo *see* **Takamura, Masaki,** (**98h:47004**)
Vera Mendoza, Rigoberto The (Γ, t)-topology on $L(E, E)$ and the spectrum of a bounded linear operator on a locally convex topological vector space. (English summary)
Wei, Guang Sheng A new description of domains of selfadjointness of symmetric operators. (Chinese. English and Chinese summaries) **98c:47031**
Xue, Yifeng *see* **Chen, Guo Liang[1], 98k:47019**
Yurdakul, M. *see* **Djakov, P., 98j:46004**
Zhang, Hai Tao Existence of a non-strict morphism of quotient Banach spaces. (English summary) **98a:46028**
Zhang, Shi Sheng (*with* Chen, Yu Qing; Lee, Byung Soo) On the semi-inner product in locally convex spaces. (English summary) **98c:46043**
Zhuravlev, V. F. Solution of normally solvable operator equations in Banach spaces with a basis. (Russian) **98c:47012**

47A10 Spectrum, resolvent

Barnes, Bruce A. Common operator properties of the linear operators RS and SR. (English summary) **98f:47003**
Berkani, M. (*with* Ouahab, A.) Théorème de l'application spectrale pour le spectre essentiel quasi-Fredholm. (English and French summaries) [Spectral mapping theorem for the quasi-Fredholm essential spectrum] **98c:47002**
Bertoglio, N. (*with* Martínez, Servet A.; San Martín, Jaime) A pointwise spectrum and representation of operators. (English summary) **98d:47010**
Boumenir, A. On the growth of the spectral measure. (English summary) **98d:47011**
Djordjević, Slaviša V. The continuity of the essential approximative point spectrum. (English summary) **98e:47003**
— On continuity of the Browder essential approximative point spectrum. (English summary) **98b:47004**
— The semi-continuity of the Browder essential generalized spectrum. (English summary) **98d:47012**
Erovenko, V. A. Essential Weyl spectrum of analytic functions of bounded operators in a Banach space. (Russian. English and Russian summaries) **98i:47002**
Garibay Bonales, Fernando (*with* Vera Mendoza, Rigoberto) A formula to calculate the spectral radius of a compact linear operator. (English summary) **98d:47013**
— (*with* Vera Mendoza, Rigoberto) Extending the formula to calculate the spectral radius of an operator. (English summary) **98m:47002**
Harte, Robin On criss-cross commutativity. (English summary) **98e:47004**
Jeon, In Ho (*with* Kim, Jin Chun; Lee, Woo Young) On a spectral property of analytic operators. (English summary) **98i:47003**
Kim, Jin Chun *see* **Jeon, In Ho; et al., 98i:47003**
Lee, Woo Young On a spectral equivalence. (English summary) **98h:47007**
— *see also* **Jeon, In Ho; et al., 98i:47003**
Lyubich, Yu. I. The boundary spectrum of linear operators in finite-dimensional spaces. **98e:47005**
Martínez, Servet A. *see* **Bertoglio, N.; et al., 98d:47010**
Matache, Valentin Spectral properties of operators having dense orbits. (English summary) **98j:47002**
Monniaux, Sylvie (*with* Prüss, Jan) A theorem of the Dore-Venni type for noncommuting operators. (English summary) **98b:47005**
Nevanlinna, Olavi (*with* Vainikko, Gennadi) Limit spectrum of discretely converging operators. **98j:47003**
— On the growth of the resolvent operators for power bounded operators. **98e:47006**

Nikol'skiĭ, Nikolai K. An elementary approach to Carleman-type resolvent estimates. (English summary) **98k:47003**
Ouahab, A. *see* **Berkani, M., 98c:47002**
Panchapagesan, T. V. Orthogonal and bounded orthogonal spectral representations. (English summary) **98j:47004**
Prüss, Jan *see* **Monniaux, Sylvie, 98b:47005**
Rakočević, Vladimir A note on generalized resolvent. (English summary) **98e:47007**
San Martín, Jaime *see* **Bertoglio, N.; et al., 98d:47010**
Schmoeger, Christoph The spectral mapping theorem for the essential approximate point spectrum. **98j:47005**
Shih, Mau-hsiang (*with* Wu, Jinn-wen) A representation formula for the Lyapunov exponent of an operator. (English summary) **98b:47006**
Stochel, Jan (*with* Szafraniec, Franciszek Hugon) C^∞-vectors and boundedness. (English summary) **98c:47003**
Su, Wei Gang Properties of the spectra of translational power norm sequence-convex operators. (Chinese. English and Chinese summaries) **98d:47014**
Święch, Andrzej A note on the differences of the consecutive powers of operators. (English summary) **98f:47004**
Szafraniec, Franciszek Hugon *see* **Stochel, Jan, 98c:47003**
Trefethen, Lloyd N. Pseudospectra of linear operators. (English summary) **98i:47004**
Uetake, Yoichi On a property of weak resolvents and its application to a spectral problem. (English summary) **98d:47015**
Uskova, N. B. On a problem of Pearcy and Shields. (Russian) **98k:47004**
Vainikko, Gennadi *see* **Nevanlinna, Olavi, 98j:47003**
Vera Mendoza, Rigoberto *see* **Garibay Bonales, Fernando, 98d:47013** *and* **98m:47002**
Wu, Jingbo (*with* Zhu, Shang Wei) Some conditions for the resolvent with values in the Schatten-von Neumann classes. (English summary) **98d:47016**
Wu, Jinn-wen *see* **Shih, Mau-hsiang, 98b:47006**
Yang, Youngoh On the Weyl spectrum of weight. (English summary) **98m:47003**
Zhu, Shang Wei *see* **Wu, Jingbo, 98d:47016**

Items with secondary classifications in 47A10

Abramovich, Yuri A. (*with* Aliprantis, Charalambos D.; Polyrakis, I. A.) Some remarks on surjective and bounded below operators. (English summary) **98b:47002**
Agranovich, Yu. Ya. (*with* Azizova, O. T.) A relationship between mixed discriminants and the joint spectrum of a family of commuting operators in a finite-dimensional space. (Russian. Russian summary) **98m:47013**
Alberverio, Sergio (*with* Kurasov, Pavel) Rank one perturbations of not semibounded operators. (English summary) **98k:47025**
Aliprantis, Charalambos D. *see* **Abramovich, Yuri A.; et al., 98b:47002**
Allakhverdiev, B. P. *see* **Maksudov, F. G., 98h:47018**
Antoniou, Ioannis E. *see* **Bandtlow, O. F.; et al., 98f:58153**
Arimoto, Shigeru *see* **Zizler, Peter; et al., 98d:47062**
Azbelev, Nikolai Viktorovich (*with* Rakhmatullina, L. F.) On an estimate for the spectral radius of a linear operator in the space of continuous functions. (Russian) **98i:47033**
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Bagchi, Bhaskar (*with* Misra, Gadadhar) Constant characteristic functions and homogeneous operators. (English summary) **98a:47009**
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47A25 Spectral sets

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47A30 Norms (inequalities, more than one norm, etc.)

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47A35 Ergodic theory [see also 28Dxx]

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47A40 Scattering theory [see also 34L25, 35P25, 81Uxx]

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47A45 Canonical models for contractions and nonselfadjoint operators

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— On characterising contractions with C_{10} pure part. (English summary) **98j:47016**
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— The Blaschke-Potapov factorization theorem and the theory of nonselfadjoint operators. (English summary) **98i:47009**
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47A50 Equations and inequalities involving linear operators, with vector unknowns

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— (*with* Karlovich, Yu. I.) ★ Carleson curves, Muckenhoupt weights, and Toeplitz operators. (English summary) **98m:47031**
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— (*with* Solodkiĭ, S. G.) On the optimization of projection-iterative methods for the approximate solution of ill-posed problems. (Russian. English and Ukrainian summaries) **98b:65058**
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47A53 (Semi-) Fredholm operators; index theories [see also 58B10, 58G12]

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Fan, Qihong (*with* Wong, M. W.) A characterization of some non-elliptic pseudo-differential operators as Fredholm operators. (English summary) **98c:47060**
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Guentner, Erik (*with* Higson, Nigel) A note on Toeplitz operators. (English summary) **98k:47044**
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47A55 Perturbation theory

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— (*with* Yang, Chang Sen) Harnack's inequalities for analytic operator functions. **98m:47014**
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— (*with* Dubovoĭ, V. K.; Kirstein, Bernd; Fritzsche, Bernd) Contraction operators, defect functions, and scattering theory. (Russian. English and Ukrainian summaries) **98j:47020**
Chechkin, G. A. Vibration of fluids in a vessel with a net on the surface. (English summary) **98h:76026**
Dubovoĭ, V. K. *see* **Boĭko, S. S.; et al., 98j:47020** *and* **98k:47016**
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47A57 Operator methods in interpolation, moment and extension problems [see also 30E05, 42A70, 42A82]

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— (*with* Kaftal, Victor G.; Weiss, Gary; Woerdeman, Hugo J.) Bounds for operator/Hilbert-Schmidt norm minimization using entropy. (English summary) **98j:47034**
Ball, Joseph A. The nonlinear Nevanlinna-Pick interpolation problem. (English summary) **98a:47012**
— (*with* Gohberg, Israel; Kaashoek, M. A.) Nudelman interpolation and the band method. (English summary) **98b:47020**
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Dubovoĭ, V. K. The indefinite metric in the Schur interpolation problem for analytic functions. IV [MR 86c:47008]. (English summary) (*see* **98f:47001**)
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— (*with* Freydin, Boris) Bitangential interpolation for triangular operators when the Pick operator is strictly positive. (English summary) **98f:47017**
El-Sabbagh, A. A. On the solution of Nevanlinna Pick problem with selfadjoint extensions of symmetric linear relations in Hilbert space. (English summary) **98h:47019**
Foias, C. (*with* Frazho, A. E.; Gohberg, Israel; Kaashoek, M. A.) Parameterization of all solutions of the three chains completion problem. (English summary) **98k:47031**

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Frazho, A. E. *see* **Foias, C.; et al., 98k:47031**
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— (*with* Kirstein, Bernd) On the theory of matrix-valued functions belonging to the Smirnov class. (English summary) **98m:47016**
— (*with* Kheĭfets, A. Ya.; Yuditskiĭ, P. M.) An abstract interpolation problem and the extension theory of isometric operators [MR 90b:47015]. (English summary) (*see* **98f:47001**)
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— (*with* Fritzsche, Bernd; Kirstein, Bernd) A function-theoretic approach to a parametrization of the set of solutions of a completely indeterminate matricial Nehari problem. (English summary) **98k:30052**
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Lin, Hua Xin Almost commuting selfadjoint matrices and applications. (English summary) **98c:46121**
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47A63 Operator inequalities, operator means, shorted operators, etc.

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47B39 Difference operators [see also 39A70]

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47B40 Spectral operators, decomposable operators, well-bounded operators, etc.

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47B50 Operators on spaces with an indefinite metric

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Kuzhel', S. A. The abstract Lax-Phillips scattering scheme in Pontryagin spaces. (Russian. Russian summary) **98g:47009**

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Anastassiou, George A. Lattice homomorphism inequalities for vector valued functions. (*see* **98i:00027**)

Drewnowski, Lech (*with* Kamińska, Anna; Lin, Pei-Kee) On multipliers and L- and M-projections in Banach lattices and Köthe function spaces. **98c:46034**

Drobnič, Andreja Lexicographical isotone linear operators. (Slovenian. English and Slovenian summaries)

Duchoň, Miloslav Generalized Herglotz theorem in vector lattices. (English summary) **98m:28021**

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Kolesnikov, E. V. In the shadow of a positive operator. (Russian. Russian summary) **98i:47034**
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Nussbaum, Roger D. (*with* Walsh, Bertram) Approximation by polynomials with nonnegative coefficients and the spectral theory of positive operators. (English summary) **98h:47053**
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Räbiger, Frank (*with* Wolff, Manfred P. H.) On the approximation of positive operators and the behaviour of the spectra of the approximants. (English summary) **98k:47074**
— (*with* Wolff, Manfred P. H.) Spectral and asymptotic properties of dominated operators. (English summary) **98k:47073**
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Kornfeld, Isaac (*with* Lin, Michael) Coboundaries of irreducible Markov operators on $C(K)$. (English summary) **98d:47029**
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47B80 Random operators [see also 60H25]

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Figotin, Alexander On the absence of an absolutely continuous component of the spectrum in random Jacobi matrices. I. (Russian) (*see* **98d:00009**)
— On the absence of an absolutely continuous component of the spectrum in random Jacobi matrices. II. (Russian) (*see* **98d:00009**)

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Fischer, Werner (*with* Leschke, Hajo; Müller, Peter[1]) Towards localisation by Gaussian random potentials in multi-dimensional continuous space. (English summary) **98b:81038**
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Guille-Biel, Claire Sparse Schrödinger operators. (English summary) **98e:47053**
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Jitomirskaya, Svetlana Yu. Continuous spectrum and uniform localization for ergodic Schrödinger operators. (English summary) **98f:39014**
Khorunzhil, A. M. (*with* Rodgers, G. J.) Eigenvalue distribution of large dilute random matrices. (English summary) **98c:82035**
Klein, Abel Extended states in the Anderson model on the Bethe lattice. (English summary) **98k:82096**
Klopp, Frédéric A low concentration asymptotic expansion for the density of states of a random Schrödinger operator with Poisson disorder. (English and French summaries) **98c:82036**
Kotani, Shinichi Generalized Floquet theory for stationary Schrödinger operators in one dimension. (English summary) **98m:34173**
Kuznetsova, O. I. On the problem of summation over disks. (Russian. English and Ukrainian summaries) **98e:42008**
Leschke, Hajo *see* **Fischer, Werner; et al., 98b:81038**
Martinez, F. (*with* Villena Muñoz, Armando R.) Random commutation. (English summary) **98h:47033**
Müller, Peter[1] *see* **Fischer, Werner; et al., 98b:81038**
Rodgers, G. J. *see* **Khorunzhil, A. M., 98c:82035**
Velasco, M. V. (*with* Villena Muñoz, Armando R.) A random closed graph theorem. (Italian summary) **98b:46009**
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Yurinskiĭ, V. V. Raising the spectrum bottom by a random potential. (English summary) **98m:35147**

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Luo, Qun (*with* Sun, Tian Xiang) Properties of positive operators on random inner product modules. (Chinese. English and Chinese summaries)
Nagisa, Masaru (*with* Wada, Shuhei) Averages of operators and their positivity. (English summary) **98d:47077**
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Boutet de Monvel-Berthier, Anne-Marie (*with* Egorova, I. E.; Khruslov, Evgeniĭ Yakovlevich) Soliton asymptotics of the Cauchy problem solution for the Toda lattice. (English summary) **98f:35141**
Clark, Douglas N. Projectivity and lifting of Hilbert module maps. (English summary) **98a:47008**
Davidson, Kenneth R. Polynomially bounded operators, a survey. **98e:47033**
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Ding, Xuan Hao Superisometric dilations of operators. (Chinese. English and Chinese summaries) **98c:47007**
Dodds, P. G. (*with* Sukochev, F. A.) Contractibility of the linear group in Banach spaces of measurable operators. (English summary) **98k:46108**
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Girardi, Maria (*with* Johnson, William B.) Universal non-completely-continuous operators. (English summary) **98i:46010**
Grafakos, Loukas (*with* Li, Xinwei; Yang, Dachun) Bilinear operators on Herz-type Hardy spaces. (English summary) **98e:42016**
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Katsnelson, Victor Emanuelovich (*with* Kheifets, A. Ya.; Yuditskiĭ, P. M.) An abstract interpolation problem and the extension theory of isometric operators [MR 90b:47015]. (English summary) (*see* **98f:47001**)
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Le Merdy, Christian Factorization of p-completely bounded multilinear maps. (English summary) **98b:46073**
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Paulsen, Vern I. Resolutions of Hilbert modules. **98g:47034**
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Timotin, Dan A new proof of N. J. Young's theorem on the orbits of the action of the symplectic group. (English summary) **98j:47044**
Wang, Zong Yao (*with* Jiang, Chun Lan) Recent research on completely reducible operators. (Chinese. English and Chinese summaries) **98d:47041**
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47Cxx Individual linear operators as elements of algebraic systems

47C05 Operators in algebras

Items with secondary classifications in 47C05

Arora, Subhash C. Quasidiagonal p-class of operators. (English summary) **98d:47093**
Cload, Bruce A. Generating the commutant of a composition operator. (English summary) **98i:47030**
Coates, Keith J. Normalizers of nest algebras. (English summary) **98d:47094**
— Errata to: "Normalizers of nest algebras" [Proc. Amer. Math. Soc. **126** (1998), no. 1, 159–165; MR 98d:47094]. (English summary) **98k:47088**
Gillespie, Thomas Alastair Boundedness criteria for Boolean algebras of projections. (English summary) **98h:47048**
Heidler, Harald Algebraic and essentially algebraic composition operators on the ball or polydisk. (English summary) **98k:47053**

47C10 Operators in $*$-algebras

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Park, Efton Toeplitz algebras associated to isometric flows. **98g:47023**

47C15 Operators in C^*- or von Neumann algebras

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Berntzen, Rainer (*with* Sołtysiak, A.) On strong generation of $B(\mathscr{H})$ by two commutative C^*-algebras. (English summary) **98c:47054**
Burnap, Charles (*with* Hoover, Thomas B.; Lambert, Alan) von Neumann algebras associated with composition operators. (English summary) **98a:47031**
Davidson, Kenneth R. (*with* Paulsen, Vern I.) Polynomially bounded operators. (English summary) **98d:47003**
Hoover, Thomas B. *see* **Burnap, Charles; et al., 98a:47031**
Lambert, Alan *see* **Burnap, Charles; et al., 98a:47031**
Lin, Hua Xin Almost commuting selfadjoint matrices and applications. (English summary) **98c:46121**
Loring, Terry A. (*with* Pedersen, Gert K.) Smoothing techniques in C^*-algebra theory. (English summary) **98c:46122**
Paulsen, Vern I. *see* **Davidson, Kenneth R., 98d:47003**
Pedersen, Gert K. *see* **Loring, Terry A., 98c:46122**
Roch, Steffen (*with* Santos, P. A.; Silbermann, Bernd) Finite section method in some algebras of multiplication and convolution operators and a flip. (English summary) **98g:47024**
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Cho, Sung Je Essentially normal elements of von Neumann algebras. (English summary) **98b:46077**
Ding, Xuan Hao (*with* Sun, Shun Hua) Essential commutant of analytic Toeplitz operators. **98m:47033**
Rho, Jae Chul (*with* Yoo, Jong-Kwang) On the spectral maximal spaces of a multiplication operator. **98j:47076**
Sun, Shun Hua *see* **Ding, Xuan Hao, 98m:47033**
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47Dxx Algebraic systems of linear operators [see also 46Lxx]

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Kadison, Richard V. (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. I. **98f:46001a**
— (*with* Ringrose, John R.) ★ Fundamentals of the theory of operator algebras. Vol. II. **98f:46001b**
Ringrose, John R. *see* **Kadison, Richard V., 98f:46001a** *and* **98f:46001b**

47D03 (Semi)groups of linear operators {For nonlinear operators, see 47H20; see also 20M20.}

Batty, Charles J. K. (*with* van Neerven, Jan; Räbiger, Frank) Local spectra and individual stability of uniformly bounded C_0-semigroups. (English summary) **98h:47054**
— (*with* van Neerven, Jan; Räbiger, Frank) Tauberian theorems and stability of solutions of the Cauchy problem. (English summary) **98h:47055**
Blower, Gordon Multipliers for semigroups. (English summary) **98c:47046**
Bobrowski, Adam On the generation of non-continuous semigroups. (English summary) **98d:47078**
Emel'yanov, Éduard Yu. Some aspects of the theory of bounded groups of operators in Banach spaces. (English summary) **98f:47046**
Fendler, Gero Dilations of one parameter semigroups of positive contractions on L^p spaces. (English summary) **98i:47035**
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Huang, Falun *see* **Li, Miao[2], 98f:47048**
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Li, Miao[2] (*with* Huang, Falun) Characterizations of contraction C-semigroups. (English summary) **98f:47048**
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Mishura, Yu. S. (*with* Lavrent'ev, A. S.) The problem of extension for two-parameter kernels. (Russian. English and Ukrainian summaries) **98m:47058**
Nagy, Béla Periodic groups of operators in Banach spaces. (English summary) **98j:47081**
van Neerven, Jan *see* **Batty, Charles J. K.; et al., 98h:47054** *and* **98h:47055**
de Pagter, Ben (*with* Schep, Anton R.) Diagonals of positive semigroups. (English summary) **98d:47080**
Peng, Ji Gen (*with* Liang, Xi Ming) New generating theorems for semigroups of linear operators. (Chinese. English and Chinese summaries) **98c:47047**
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Tychopoulos, E. Hardy-Littlewood-Sobolev theory on Lie groups with Lorentz norms. (English summary) **98b:47051**
Vũ Quốc Phóng Almost periodic and strongly stable semigroups of operators. **98d:47081**
Wang, Sheng Wang Properties of subgenerators of C-regularized semigroups. (English summary) **98d:47082**
Zhang, Li Xun A question about a group of linear operators. (Chinese. English and Chinese summaries) **98e:47058**

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Alboth, Dirk Unbounded translation invariant operators and the derivation property. **98h:47040**
Arveson, William Minimal E_0-semigroups. (English summary) **98b:46087**
Bartoszek, Wojciech One-parameter positive contraction semigroups are convergent. (English summary) **98d:47075**
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O'Regan, Donal Fixed points for M^* and regularly approximable maps. (English summary) **98e:47094**
Papageorgiou, Nikolaos S. *see* **Hu, Shouchuan, 98k:47001**
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Penot, Jean-Paul *see* **Ioffe, Alexandre D., 98i:49022**
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— (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) Random coincidence degree theory with applications to random differential inclusions. (English summary) **98e:47113**
— (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) Correction: "Random coincidence degree theory with applications to random differential inclusions" [Comment. Math. Univ. Carolin. **37** (1996), no. 4, 725–748; MR 98e:47113]. —
— *see also* **Yuan, Xian-Zhi, 98m:49030**
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— The topological degree and some applications of a class of set-valued mappings. (Chinese. English and Chinese summaries) **98d:47144**
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— (*with* Smith, Bruce Ralph; Lou, Shituo) Fixed point and coincidence theorems of set-valued mappings in topological vector spaces with some applications. **98j:47139**
— *see also* **Tarafdar, Enayet, 98a:90158; 98e:47113** *and* **Zhang, Shi Sheng; et al.**
Zabrejko, Petr Petrovich Chebyshev envelopes and multivalued superposition operators. (Russian. English and Russian summaries) **98m:47112**
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Zhang, Shi Sheng (*with* Yuan, Xian-Zhi; Lee, Gue Myung; Zhang, Xiao Lan) Saddle points and minimax theorems for vector-valued multifunctions on H-spaces. (English summary)
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47H05 Monotone operators (with respect to duality)

Attouch, H. (*with* Théra, M.) A general duality principle for the sum of two operators. (English summary) **98k:47103**
— (*with* Riahi, Hassan; Théra, M.) Somme ponctuelle d'opérateurs maximaux monotones. (English summary) [Pointwise sum of maximal monotone operators] **98e:47083**
Coodey, M. The picture of a specific maximal monotone set. (English summary) **98f:47061**
Egberts, Paul On the sum of two maximal monotone operators. II. **98c:47061**
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Kartsatos, Athanassios G. On conditions for a saddle point in the theory of perturbations of nonlinear maximally monotone operators in a Hilbert space. (Russian) **98m:47087**
— *see also* **Guan, Zhengyuan, 98c:47062**
Kum, Sangho Maximal monotone operators in the one-dimensional case. (English summary) **98h:47069**
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— Pairs of monotone operators. (English summary) **98j:47120**
Théra, M. *see* **Attouch, H.; et al., 98e:47083** *and* **98k:47103**
Verma, Ram U. Nonlinear uniformly monotone operators and associated nonlinear variational inequalities. (English summary)
— Strongly maximal monotone mappings in Banach spaces. **98j:47121**

Items with secondary classifications in 47H05

Burachik, Regina S. (*with* Iusem, Alfredo Noel; Svaiter, B. F.) Enlargement of monotone operators with applications to variational inequalities. (English summary) **98h:49010**
Cohen, Guy (*with* Renaud, Arnaud) An extension of the auxiliary problem principle to nonsymmetric auxiliary operators. (English summary) **98i:49011**
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— A resolution of Simons' maximal monotonicity problem. (English summary) **98d:49020**
Georgiev, Pando Gr. Submonotone mappings in Banach spaces and applications. (English summary) **98d:49021**
Gertenbach, Jan D. Variational inequalities and the positivity of monotone mappings. (English summary) **98i:47060**
Iusem, Alfredo Noel *see* **Burachik, Regina S.; et al., 98h:49010**
Ivanov, R. P. (*with* Raykov, I. L.) Parametric Lyapunov function method for solving nonlinear systems in Hilbert spaces. (English summary) **98i:65046**
Jovanov, Djurica Variational inequalities with point-to-set operators. (English summary) **98c:47081**
Jung, Jong Soo (*with* Park, Jong Yeoul; Park, Jong Seo) Asymptotic behavior of almost-orbits of reversible semigroups of non-Lipschitzian mappings in Banach spaces. (English summary) **98c:47082**
Kartsatos, Athanassios G. On the connection between the existence of zeros and the asymptotic behavior of resolvents of maximal monotone operators in reflexive Banach spaces. (English summary) **98m:47096**
Knott, Martin *see* **Smith, Cyril Samuel, (98k:60003)**
Mel'nik, V. S. On the critical points of some classes of multivalued mappings. (Russian. English and Ukrainian summaries) **98m:47085**
Moudafi, Abdellatif (*with* Théra, M.) Finding a zero of the sum of two maximal monotone operators. (English summary) **98f:49035**
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Pascali, Dan On mappings of type (S). (English summary) **98a:47065**
Phạm Hữu Sách (*with* Nguyễn Đông Yên) Convexity criteria for set-valued maps. (English summary) **98d:47115**
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Schwartz, Thomas[2] Farthest points and monotonicity methods in Hilbert spaces. **98j:41037**
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Simons, Stephen Subdifferentials of convex functions. (English summary) **98d:49025**
Smith, Cyril Samuel (*with* Knott, Martin) Generalising monotonicity. (*see* **98k:60003**)
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47H06 Accretive operators, dissipative operators, etc.

Bothe, Dieter Upper semicontinuous perturbations of m-accretive operators and differential inclusions with dissipative right-hand side. **98d:47116**
Chen, Yu Qing (*with* Cho, Yeol Je) On 1-set-contraction perturbations of accretive operators in cones of Banach spaces. (English summary) **98d:47117**
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Ma, Xin Shun (*with* Shi, Tong Ju) Improvements of some results on the ranges of perturbed m-accretive operators. (Chinese. English and Chinese summaries) **98e:47084**
— On the ranges of perturbed m-accretive operators. **98c:47063**
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Ding, Xie Ping Iterative solution of equation $f \in x + Tx$ for an accretive operator T in uniformly smooth Banach spaces. (English summary) **98e:47100**
— Iterative process with errors of nonlinear equations involving m-accretive operators. (English summary) **98k:47125**

Garcia Falset, Jesús (*with* Sims, Brailey) Property (M) and the weak fixed point property. (English summary) **98c:46022**
He, Ming Xing A topological degree for m-accretive operators perturbed by a condensing mapping. (Chinese. English and Chinese summaries) **98h:47082**
Kocan, Maciej (*with* Soravia, Pierpaolo; Święch, Andrzej) On differential games for infinite-dimensional systems with nonlinear, unbounded operators. (English summary) **98j:90110**
Moore, Chika *see* **Chidume, C. E., 98m:47107**
Naito, Koichiro Dimensions of almost periodic trajectories for nonlinear evolution equations. (English summary) **98e:34115**
Osilike, M. O. Approximation methods for nonlinear m-accretive operator equations. (English summary) **98c:47080**
— Ishikawa and Mann iteration methods with errors for nonlinear equations of the accretive type. (English summary) **98g:47054**
Ryazantseva, I. P. On equations with perturbed accretive mappings. (Russian) **98k:47123**
Sims, Brailey *see* **Garcia Falset, Jesús, 98c:46022**
Soravia, Pierpaolo *see* **Kocan, Maciej; et al., 98j:90110**
Święch, Andrzej *see* **Kocan, Maciej; et al., 98j:90110**
Xue, Zhi Qun Ishikawa iterative methods with errors for solving Lipschitzian strongly accretive operator equations. (Chinese. English and Chinese summaries)
Zeng, Liu Chuan Iterative approximation of solutions to nonlinear equations of strongly accretive operators in Banach spaces. **98k:47124**
Zhou, Hai Yun Surjectivity theorems for M-accretive operators with compact perturbations. (Chinese. English and Chinese summaries) **98g:47057**

47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces

Cao, Shi Yi *see* **Zhang, Shi Sheng; et al., 98d:47119**
Dancer, E. N. Some remarks on a boundedness assumption for monotone dynamical systems. (English summary) **98e:47085**
Krasnosel'skiĭ, Mark Aleksandrovich (*with* Lusnikov, A. V.) On vector boundary value problems with discontinuous nonlinearities. (Russian) **98j:47122**
Li, Fu Yi *see* **Liang, Zhan Dong, 98a:47055**
Liang, Zhan Dong (*with* Li, Fu Yi) A surjection theorem and its applications. (Chinese. English and Chinese summaries) **98a:47055**
— (*with* Wang, Cai Yun) A theorem on positive α-homogeneous operator equations and its application. (Chinese. English and Chinese summaries) **98a:47056**
Lusnikov, A. V. *see* **Krasnosel'skiĭ, Mark Aleksandrovich, 98j:47122**
Nieto, Juan J. An abstract monotone iterative technique. (English summary) **98b:47068**
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Wu, Xian[3] *see* **Zhang, Shi Sheng; et al., 98d:47119**
Zhang, Shi Sheng (*with* Cao, Shi Yi; Wu, Xian[3]) Noncompact minimax theorems in interval spaces. (Chinese. English and Chinese summaries) **98d:47119**

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Guu, Sy-Ming On some coupled quasi-fixed points theorems. (English summary) **98c:47069**
Liz, Eduardo Abstract monotone iterative techniques and applications to impulsive differential equations. (English summary) **98k:47127**
Syau, Yu-Ru Some fixed point theorems of T-monotone operators. **98a:47064**
Uhl, Roland Ordinary differential inequalities and quasimonotonicity in ordered topological vector spaces. (English summary) **98h:34115**
Zaharopol, Radu On the Banach principle. (English summary) **98j:47013**

47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness, A-proper mappings, K-set contractions, etc.)

Arandjelović, Ivan (*with* Milovanović-Arandelović, Marina M.) Some properties of Hausdorff measure of noncompactness on locally bounded topological vector spaces. (English summary) (*see* **98k:00020**)
Berinde, Vasile On a homeomorphism theorem. **98e:47086**
Bolibok, Krzysztof Constructions of Lipschitzian mappings with non-zero minimal displacement in spaces $L^1(0,1)$ nd $L^2(0,1)$. (English summary) **98j:47123**
Bruck, Ronald E. A simple proof that the rate of asymptotic regularity of $(I+T)/2$ is $O(1/\sqrt{n})$. (English summary) **98d:47120**
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Cho, Yeol Je (*with* Sharma, Birendra Kumar; Thakur, Balwant Singh) Weak convergence theorems for non-Lipschitzian asymptotically nonexpansive mappings in uniformly convex Banach spaces. (English summary) **98c:47064**
— *see also* **Chen, Yu Qing; et al., 98f:47062**
Collaço, M. Paula S. Oliveira (*with* Carvalho e Silva, Jaime) A complete comparison of 25 contraction conditions. (English summary) **98j:47124**
Das, Gokulananda (*with* Manjari Swain, Manoja) A convergence theorem of non-expansive mappings in Hilbert spaces. (English summary) **98d:47121**
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DiLena, Giovanni (*with* Messano, Basilio; Roux, Delfina) Rigid sets and nonexpansive mappings. (English summary) **98b:47069**
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Ghosh, Mrinal Kanti (*with* Debnath, Lokenath) Convergence of Ishikawa iterates of quasi-nonexpansive mappings. (English summary) **98c:47065**
Ha, Ki Sik *see* **Chen, Yu Qing; et al., 98f:47062**
Jachymski, Jacek R. An extension of A. Ostrowski's theorem on the round-off stability of iterations. (English summary) **98d:47122**
Jung, Jong Soo (*with* Kim, Tae Hwa) Convergence of approximate sequences for compositions of nonexpansive mappings in Banach spaces. **98e:47087**
Kaczor, Wiesława (*with* Koter-Mórgowska, Małgorzata) Firmly Lipschitzian mappings. (English summary) **98g:47046**
Kim, Gang-Eun (*with* Takahashi, Wataru) Strong convergence theorems for nonexpansive nonself-mappings in Banach spaces. **98m:47088**
Kim, Tae Hwa *see* **Jung, Jong Soo, 98e:47087**
Koter-Mórgowska, Małgorzata *see* **Kaczor, Wiesława, 98g:47046**
Krüppel, Manfred On an inequality for nonexpansive mappings in uniformly convex Banach spaces. (English summary) **98k:47105**
Lee, Young Seop Convergence of nonexpansive mappings. (English summary) **98d:47123**
Lemaire, Bernard Stability of the iteration method for nonexpansive mappings. (English summary) **98d:47124**
Li, Gang[1] (*with* Ma, Ji Pu) The asymptotic behavior of an asymptotically almost nonexpansive curve and an ergodic theorem. (Chinese. Chinese summary) **98c:47066**
— (*with* Ma, Ji Pu) An ergodic retraction theorem for Lipschitzian topological semigroups over Banach spaces. (Chinese. Chinese summary) **98m:47089**
— (*with* Ma, Ji Pu) Ergodic theory for non-Lipschitzian commutative nonlinear topological semigroups in Banach spaces. (Chinese. English and Chinese summaries) **98j:47125**
Ma, Ji Pu *see* **Li, Gang[1], 98c:47066; 98j:47125** *and* **98m:47089**
Manjari Swain, Manoja *see* **Das, Gokulananda, 98d:47121**
Messano, Basilio *see* **DiLena, Giovanni; et al., 98b:47069**
Milovanović-Arandelović, Marina M. *see* **Arandjelović, Ivan, (98k:00020)**
Miyadera, Isao Nonlinear mean ergodic theorems. (English summary) **98k:47106**
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Shimizu, Tomoo A strong convergence theorem for an iteration of nonexpansive mappings. **98d:47126**
Shioji, Naoki (*with* Takahashi, Wataru) Convergence of approximated sequences for nonexpansive mappings. (*see* **98i:00032**)
— (*with* Takahashi, Wataru) Strong convergence of approximated sequences for nonexpansive mappings in Banach spaces. (English summary) **98e:47088**
— (*with* Takahashi, Wataru) Convergence of approximated sequences for nonexpansive mappings. (*see* **98g:00027**)
Sun, Daqing Measures of semi-noncompactness and set-valued AM-mappings. (English and Chinese summaries) **98e:47089**
Takahashi, Wataru (*with* Tamura, Takayuki[2]) Image recovery by convex combinations of nonexpansive retractions in Banach spaces. **98i:47051**
— (*with* Tamura, Takayuki[2]) Limit theorems of operators by convex combinations of nonexpansive retractions in Banach spaces. **98m:47091**
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— *see also* **Shioji, Naoki, 98e:47088; Kim, Gang-Eun, 98m:47088; Shioji, Naoki, (98g:00027)** *and* **(98i:00032)**
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Wang, Li Sheng (*with* Xu, Zong Ben) Quantitative properties of nonlinear Lipschitz operators. II. The glb-Dahlquist constant. (Chinese. English and Chinese summaries) **98d:47127**
Xu, Hong-Kun Approximating curves of nonexpansive nonself-mappings in Banach spaces. (English and French summaries) **98i:47052**
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Zeng, Liu Chuan Weak convergence of almost-orbits of asymptotically nonexpansive families in uniformly convex Banach spaces. (Chinese. Chinese summary) **98d:47128**
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Ahmad, Aqeel (*with* Khan, A. Rauf) Some common fixed point theorems for non-self-hybrid contractions. (English summary)
Alber, Yakov (*with* Guerre-Delabriere, Sylvie) Principle of weakly contractive maps in Hilbert spaces. (English summary) **98j:47126**
Ali, Nasr Mostafa *see* **Kubiaczyk, Ireneusz, 98k:47112**
Appell, Jürgen (*with* Dörfner, Michael) Some spectral theory for nonlinear operators. **98e:47098**
Ayerbe Toledano, José María (*with* Domínguez Benavides, Tomás; Cutillas, S. Francisco) A modulus for property (β) of Rolewicz. (English summary) **98c:46017**
Boulbrachene, Messaoud On the notion of approximate contraction mapping. Application to the finite element approximation of variational inequalities and quasi-variational inequalities with noncoercive operators. (*see* **98g:41002**)
Budzyńska, Monika (*with* Kaczor, Wiesława; Koter-Mórgowska, Małgorzata) Asymptotic normal structure, semi-Opial property and fixed points. (English summary) **98g:47048**
— (*with* Kaczor, Wiesława; Koter-Mórgowska, Małgorzata; Kuczumow, Tadeusz) Asymptotic normal structure and the semi-Opial property. **98m:46011**
Censor, Yair (*with* Reich, Simeon) Iterations of paracontractions and firmly nonexpansive operators with applications to feasibility and optimization. (English summary) **98j:47161**
Cutillas, S. Francisco *see* **Ayerbe Toledano, José María; et al., 98c:46017**
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— Fixed point theorems for uniformly Lipschitzian mappings and asymptotically regular mappings. **98k:47109**

— *see also* **Ayerbe Toledano, José María; et al., 98c:46017**
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— *see also* **Appell, Jürgen, 98e:47098**
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Erzakova, N. A. On measures of non-compactness and applications to embeddings. **98m:46045**
Fan, Jinjun (*with* Zhuang, Wan) Remarks of differential equations on closed subsets in a Banach space. (English summary) **98h:34109**
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Frigon, Marlène On continuation methods for contractive and nonexpansive mappings. (English summary) **98c:47068**
García Falset, Jesús The fixed point property in Banach spaces with the NUS-property. (English summary) **98m:47094**
Górnicki, Jarosław Fixed points of Lipschitzian semigroups in metric spaces with uniformly normal structure. (English summary) **98k:47110**
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Kada, Osamu (*with* Lau, Anthony T. M.; Takahashi, Wataru) Asymptotically invariant net and fixed point set for semigroup of nonexpansive mappings. **98d:47156**
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Kamenskiĭ, Mikhail (*with* Nistri, Paolo; Zecca, Pietro) On the periodic solutions problem for parabolic inclusions with a large parameter. **98j:34122**
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Kim, Tae Hwa (*with* Kim, Eun Suk) Fixed point theorems for non-Lipschitzian mappings in Banach spaces. (English summary) **98h:47076**
— (*with* Xu, Hong-Kun) Some Hilbert space characterizations and Banach space inequalities. (English summary) **98m:46027**
— *see also* **Ume, Jeong Sheok; et al., 98i:47055**
Kirk, W. A. Some questions in metric fixed point theory. (English summary) **98f:46010**
Kiwiel, Krzysztof C. (*with* Łopuch, Bożena) Surrogate projection methods for finding fixed points of firmly nonexpansive mappings. (English summary) **98j:90049**
Koter-Mórgowska, Małgorzata *see* **Budzyńska, Monika; et al., 98g:47048** *and* **98m:46011**
Kubiaczyk, Ireneusz (*with* Ali, Nasr Mostafa) Fixed point theorems for weakly condensing and weakly compact maps. **98k:47112**
Kuczumow, Tadeusz *see* **Budzyńska, Monika; et al., 98m:46011**
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Li, Fu Yi (*with* Lu, Ben Dong) A fixed point theorem for condensing maps of two-point extension type. (Chinese. English and Chinese summaries)
Li, Gang[1] (*with* Ma, Ji Pu) Flow invariance for semigroups of nonlinear contraction operators. (Chinese. English and Chinese summaries) **98e:47109**
— (*with* Ma, Ji Pu) Nonlinear ergodic theorem for semitopological semigroups of non-Lipschitzian mappings in Banach spaces. **98e:47110**
— Weak convergence and non-linear ergodic theorems for reversible semigroups of non-Lipschitzian mappings. (English summary) **98k:47139**
— On the strong ergodic theorems for semitopological semigroups of non-Lipschitzian affine mappings. (English and Chinese summaries) **98k:47138**
Liu, Li Shan Random approximations and random fixed point theorems in infinite-dimensional Banach spaces. (English summary) **98d:47158**
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47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskiĭ, Uryson, hysteresis operators, etc.) [see also 45P05]

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Goebel, Manfred (*with* Sachweh, Frank) The autonomous Nemytskij operator in Hölder spaces. (*see* **98i:00027**)
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Lou, Ben Dong Solutions of superlinear Hammerstein integral equations in Banach spaces and their applications. (Chinese. English and Chinese summaries) **98b:47076**
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Merentes, Nelson (*with* Nikodem, Kazimierz) On Nemytskii operator and set-valued functions of bounded p-variation. (English and Serbo-Croatian summaries) **98i:47063**
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Nikodem, Kazimierz *see* **Merentes, Nelson, 98i:47063**
Ponosov, A. V. (*with* Nepomnyashchikh, Yurii V.) The necessity of the Carathéodory conditions for the lower semicontinuity in measure of the multivalued Nemytskii operator. **98m:47110**
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— (*with* Nepomnyashchikh, Yurii V.) Carathéodory D-conditions and their relation to the D-continuity of the Nemytskiĭ operator. (Russian) **98j:47157**
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— Necessary conditions on composition operators acting on Sobolev spaces of fractional order. The critical case $1 < s < n/p$. (English summary) **98b:47078**
— *see also* **Runst, Thomas, 98a:47071**
Song, Shu Ni Existence theorems for generalized Hammerstein equations. (Chinese. English and Chinese summaries) **98c:47084**
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Väth, Martin A general theorem on continuity and compactness of the Uryson operator. (English summary) **98a:47073**
— Complete continuity of the Uryson operator. **98j:47159**
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— (*with* De Pascale, Espedito; Kalitvin, A. S.; Zabreĭko, Petr Petrovich) On the application of the Newton-Kantorovich method to nonlinear partial integral equations. (English summary) **98a:65184**
Arthurs, A. M. (*with* Clegg, Janet) Bounds for the solution of certain nonlinear boundary value problems of Sturm-Liouville type. (English summary) **98e:34032**
Bliman, P.-A. (*with* Krasnosel'skiĭ, A. M.; Sorine, Michel; Vladimirov, A. A.) Nonlinear resonance in systems with hysteresis. **98b:34057**
Briem, Eggert (*with* Jarosz, Krzysztof) Operating functions for Banach function spaces. (English summary) **98i:46019**
Brokate, Martin (*with* Krejčí, Pavel) Maximum norm wellposedness of nonlinear kinematic hardening models. (English summary) **98m:73047**
Chai, Guo Qing An iterative method for finding positive solutions to polynomial Hammerstein integral equations of mixed type. (Chinese. English and Chinese summaries) **98e:45006**
Chernorutskii, Vladimir V. (*with* Rachinskiĭ, Dmitriĭ) On uniqueness of an initial-value problem for ODE with hysteresis. (English summary) **98j:34004**

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De Pascale, Espedito *see* **Appell, Jürgen; et al., 98a:65184**
Drakhlin, Mikhail E. (*with* Stepanov, Eugene) Weak convergence of inner superposition operators. (English summary) **98c:47038**
Dronka, Janusz On Fredholm-Stieltjes and Hammerstein-Stieltjes integral operators over an infinite interval. (English summary) **98j:47110**
Egberts, Paul On the sum of two maximal monotone operators. II. **98c:47061**
Galinaitis, William S. (*with* Rogers, Robert C.) Compensation for hysteresis using bivariate Preisach models. (English summary) (*see* **98d:00024**)
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Hu, Jun Yun Existence of solutions to singular Hammerstein integral equations. (Chinese. Chinese summary) **98d:45005**
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Krasnosel'skiĭ, Mark Aleksandrovich (*with* Rachinskiĭ, Dmitriĭ; Yumagulov, M. G.) Hopf bifurcation for autonomous systems with hysteresis. (Russian) **98m:34083**
Krejčí, Pavel (*with* Sprekels, Jürgen) On a system of nonlinear PDEs with temperature-dependent hysteresis in one-dimensional thermoplasticity. (English summary) **98a:35126**
— *see also* **Brokate, Martin, 98m:73047**
Lakshmikantham, V. *see* **Guo, Dajun; et al., 98a:45001**
Lee, John Walter (*with* O'Regan, Donal) Existence principles for nonlinear integral equations on semi-infinite intervals and half-open intervals. **98m:45010**
Liu, Li Shan Iterative solutions of nonlinear mixed monotone Hammerstein integral equations in Banach spaces. (Chinese. English and Chinese summaries) **98d:47150**
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— *see also* **Appell, Jürgen; et al., 98a:65184** *and* **Moroz, V. B., 98b:58033**

47H40 Random operators [see also 60H25]

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— (*with* Shahzad, Naseer) Measurable selections: in random approximations and fixed point theory. (English summary) **98d:47157**
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— Study of a stochastic integral equation using integral contractors. **98g:47064**
Liu, Li Shan Random approximations and random fixed point theorems in infinite-dimensional Banach spaces. (English summary) **98d:47158**
Shahzad, Naseer The random version of the Kirzbraun-Valentine extension theorem. (English summary) **98m:47113**
— *see also* **Beg, Ismat, 98d:47157**
Tan, Kok-Keong (*with* Yuan, Xian-Zhi) Random fixed point theorems and approximation. (English summary) **98d:47159**
Tarafdar, Enayet (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) Random coincidence degree theory with applications to random differential inclusions. (English summary) **98e:47113**
— (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) The measurability of Carathéodory set-valued mappings and random fixed point theorems. **98k:47142**
— (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) Correction: "Random coincidence degree theory with applications to random differential inclusions" [Comment. Math. Univ. Carolin. **37** (1996), no. 4, 725–748; MR 98e:47113]. **98k:47142**
Watson, Peter Jonothan *see* **Tarafdar, Enayet; et al., 98e:47113; 98k:47142**
Yuan, Xian-Zhi *see* **Tan, Kok-Keong, 98d:47159; Tarafdar, Enayet; et al., 98e:47113; 98k:47142**

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— Random fixed points of random operators satisfying semicontractivity conditions. (English summary) **98j:47127**
Behera, Akrur (*with* Panda, G. K.) Nonlinear random variational inequality and complementarity problems in Banach spaces. (English summary) **98i:47058**
Butnariu, Dan (*with* Iusem, Alfredo Noel) Local moduli of convexity and their application to finding almost common fixed points of measurable families of operators. (English summary) **98m:46012**
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Ganguly, Ashok (*with* Wadhwa, Kamal) On random variational inequalities. (English summary) **98d:47154**
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Janković, Svetlana *see* **Jovanović, Miljana, 98g:60117**
Jovanović, Miljana (*with* Janković, Svetlana) On a class of nonlinear stochastic hereditary integrodifferential equations. (English summary) **98g:60117**
Liu, Li Wei Random differential inclusions containing m-dissipative operators. (Chinese. English and Chinese summaries) **98h:34030**
Luo, Qun Existence theorems of random Nash equilibrium points for random set-valued maps. (English summary) **98g:90047**
Panda, G. K. *see* **Behera, Akrur, 98i:47058**
Subramaniam, Rakkianna Gounder (*with* Balachandran, Krishnan) Existence of solutions of stochastic integral equations using integral contractors. (English summary) **98h:60094**
Tarafdar, Enayet (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) Jointly measurable selections of condensing Caratheodory set-valued mappings and its applications to random fixed points. **98g:54036**
— (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) Erratum to our paper: "Jointly measurable selections of condensing Carathéodory set-valued mappings and its applications to random fixed points" [Nonlinear Anal. **28** (1997), no. 1, 39–48; MR 98g:54036]. **98g:54036**
Teodoru, Georgeta (*with* Drăgan, Vladimir) The Darboux problem for random hyperbolic multivalued equations. (Romanian summary)
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47H99 None of the above, but in this section

Galshun, Ivan Vasil'evich Stability of discrete separable Volterra equations. (Russian. Russian summary) **98d:47160**
Howlett, P. G. (*with* Torokhtiĭ, A. P.) A methodology for the constructive approximation of nonlinear operators defined on noncompact sets. (English summary) **98i:47065**
Liu, Li Shan On an open problem of Th. M. Rassias. (Chinese. English and Chinese summaries) **98h:47088**
Schott, D. About strongly Fejér monotone mappings and their relaxations. (English summary) **98j:47160**
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Arias, Alvaro (*with* Farmer, Jeff D.) On the structure of tensor products of l_p-spaces. (English summary) **98d:46015**
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Baillon, J.-B. (*with* Clément, Philippe; Greven, Andreas; den Hollander, Frank) On the attracting orbit of a nonlinear transformation arising from renormalization of hierarchically interacting diffusions. II. The non-compact case. (English summary) **98g:60177**
Ball, Joseph A. The nonlinear Nevanlinna-Pick interpolation problem. (English summary) **98a:47012**
Basha, S. Sadiq (*with* Veeramani, P.) Best proximity pairs and best approximations. (English summary) **98g:41037**
Bauschke, Heinz H. (*with* Borwein, Jonathan M.; Lewis, Adrian S.) The method of cyclic projections for closed convex sets in Hilbert space. (English summary) **98c:49069**
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Campanato, Sergio Current formulation of the theory of near operators and current definition of elliptic operator. (Italian. English summary) **98k:35038**
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Crouzeix, Jean-Pierre (*with* Ferland, J. A.) Criteria for differentiable generalized monotone maps. (English summary) **98a:49026**
Efendiev, Messoud (*with* Wendland, Wolfgang L.) Nonlinear Riemann-Hilbert problems without transversality. (English summary) **98b:30038**
Farmer, Jeff D. *see* **Arias, Alvaro, 98d:46015**
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Garay, Barnabas M. ω-limit sets in Banach spaces. (*see* **98e:00018**)
Găvruţă, P. On the Hyers-Ulam-Rassias stability of mappings. (English summary) (*see* **98k:00021**)
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den Hollander, Frank *see* **Baillon, J.-B.; et al., 98g:60177**
Hong, Yi[1] (*with* Lin, Yun Yong) Convex mappings on some Banach spaces and on bounded convex domains. (Chinese. English and Chinese summaries) **98a:46023**
Hu, Shouchuan (*with* Papageorgiou, Nikolaos S.) Time-dependent subdifferential evolution inclusions and optimal control. (English summary) **98j:34120**
Hyers, Donald H. (*with* Isac, George; Rassias, Themistocles M.) On the asymptoticity aspect of Hyers-Ulam stability of mappings. (English summary) **98d:39004**
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Lani-Wayda, Bernhard ★ Hyperbolic sets, shadowing and persistence for noninvertible mappings in Banach spaces. (English summary) **98i:58181**
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Li, Yong Jin Convex operators on Banach spaces. (Chinese. English and Chinese summaries) **98a:46025**
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Pallaschke, Diethard (*with* Rolewicz, Stefan) ★ Foundations of mathematical optimization. (English summary) **98f:49001**
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Rodrigues, H. M. (*with* Ruas-Filho, J. G.) The Hartman-Grobman theorem for reversible systems on Banach spaces. (English summary) **98e:58150**
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Yuan, Xian-Zhi The study of minimax inequalities and applications to economies and variational inequalities. (English summary) **98i:49007**
Zhensykbaev, A. A. Reconstruction of operators in the classes of functions with restrictions in integral norms. (Russian) **98m:65104**

47Nxx Miscellaneous applications of operator theory [see also 46Nxx]

47N10 Applications in optimization, convex analysis, mathematical programming, economics

Censor, Yair (*with* Reich, Simeon) Iterations of paracontractions and firmly nonexpansive operators with applications to feasibility and optimization. (English summary) **98j:47161**
Gajić, Ljiljana Existence of maximal elements. (English summary) (*see* **98h:00033**)
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Alber, Yakov (*with* Burachik, Regina S.; Iusem, Alfredo Noel) A proximal point method for nonsmooth convex optimization problems in Banach spaces. (English summary) **98m:90185**
Allali, K. (*with* Amahroq, T.) On openness and regularity of γ-paraconvex multifunctions. (English summary) **98i:49028**
Amahroq, T. *see* **Allali, K., 98i:49028**
Ansari, Qamrul Hasan (*with* Oettli, Werner; Schläger, D.) A generalization of vectorial equilibria. (English summary) **98j:90055**
Attouch, H. (*with* Théra, M.) A general duality principle for the sum of two operators. (English summary) **98k:47103**
Bagh, Adib Epi/hypo-convergence: the slice topology and saddle points approximation. (English summary) **98b:49013**
Barbu, Viorel (*with* Pavel, N. H.) Optimal control of thermal conductivity of a rod under periodic conditions. (English summary) **98h:49003**
Bauschke, Heinz H. (*with* Borwein, Jonathan M.) On projection algorithms for solving convex feasibility problems. (English summary) **98f:90045**
— (*with* Borwein, Jonathan M.; Lewis, Adrian S.) The method of cyclic projections for closed convex sets in Hilbert space. (English summary) **98c:49069**
Bianchi, Monica (*with* Hadjisavvas, N.; Schaible, S.) Vector equilibrium problems with generalized monotone bifunctions. (English summary) **98a:90086**
Borwein, Jonathan M. (*with* Moors, Warren B.; Wang, Xianfu) Lipschitz functions with prescribed derivatives and subderivatives. **98j:49019**
— *see also* **Bauschke, Heinz H.; et al., 98c:49069** *and* **98f:90045**
Bose, Ramendra Krishna Ky Fan minimax inequality and non-linear variational inequalities. (*see* **98i:00032**)
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Burachik, Regina S. *see* **Alber, Yakov; et al., 98m:90185**
Butnariu, Dan (*with* Iusem, Alfredo Noel) On a proximal point method for convex optimization in Banach spaces. (English summary) **98k:90133**
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Chu, Liang-Ju (*with* Lin, Tsai-Shiu) Existence and asymptotical convergence of solutions of variational inequalities. (English summary) **98a:49014**
Clarke, Francis H. (*with* Ledyaev, Yu. S.; Stern, Ronald Jay) Fixed point theory via nonsmooth analysis. (English summary) **98f:47063**
Cohen, Guy (*with* Renaud, Arnaud) An extension of the auxiliary problem principle to nonsymmetric auxiliary operators. (English summary) **98i:49011**
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Crouzeix, Jean-Pierre (*with* Ferland, J. A.) Criteria for differentiable generalized monotone maps. (English summary) **98a:49026**
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Ding, Xie Ping (*with* Deng, Lei) Generalized strongly nonlinear quasivariational inequalities and quasicomplementarity problems. (English and Chinese summaries) **98e:47105**
— Generalized quasi-variational-like inequalities with nonmonotone discontinuous mappings. (English summary) **98m:49018**
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Fu, Jun Yi Simultaneous vector variational inequalities and vector implicit complementarity problem. (English summary) **98c:49026**
Georgiev, Pando Gr. Submonotone mappings in Banach spaces and applications. (English summary) **98d:49021**
Hadjisavvas, N. (*with* Schaible, S.) Quasimonotone variational inequalities in Banach spaces. (English summary) **98c:49027**
— *see also* **Bianchi, Monica; et al., 98a:90086**
Huang, Nan Jing (*with* Wu, Ding Ping) Boundedness of solutions to generalized nonlinear implicit quasicomplementarity problems and a perturbed iterative algorithm for them. (Chinese. English and Chinese summaries) **98c:49028**
— (*with* Lee, Byung Soo; Kang, Mee Kwang) Fixed point theorems for compatible mappings with applications to the solutions of functional equations arising in dynamic programmings. (English summary) **98h:54058**
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Hyers, Donald H. (*with* Isac, George; Rassias, Themistocles M.) ★ Topics in nonlinear analysis & applications. **98g:47001**
Ioffe, Alexandre D. (*with* Penot, Jean-Paul) Subdifferentials of performance functions and calculus of coderivatives of set-valued mappings. (English summary) **98i:49022**
— Directional compactness, scalarization and nonsmooth semi-Fredholm mappings. **98c:49043**
Isac, George The fold complementarity problem and the order complementarity problem. **98m:49019**
— (*with* Bulavskiĭ, V. A.; Kalashnikov, Vyacheslav Vital'evich) Exceptional families, topological degree and complementarity problems. (English summary) **98d:90124**
— (*with* Persson, Lars-Erik) Inequalities related to isotonicity of projection and antiprojection operators. (English summary) **98m:47054**
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Iusem, Alfredo Noel *see* **Butnariu, Dan, 98k:90133** *and* **Alber, Yakov; et al., 98m:90185**
Jung, Jong Soo (*with* Cho, Yeol Je; Lee, Byung Soo; Lee, Gue Myung; Pathak, H. K.) Some nonconvex minimization theorems in complete metric spaces and applications. (English summary) **98g:49007**
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Kang, Mee Kwang *see* **Huang, Nan Jing; et al., 98h:54058**
Kaplan, A. A. (*with* Tichatschke, Rainer) Multi-step proximal method for variational inequalities with monotone operators. (English summary) **98i:90102**
Kassay, Gábor (*with* Kolumbán, Iosif) On the generalized Minty's inequality. (English and Romanian summaries) **98b:49008**
Kazmi, K. R. Quasi-complementarity problems in Hilbert spaces. (English summary) **98m:90158**
— *see also* **Ahmad, Khalil; et al., 98e:90188**
Khidirov, Yu. È. Variational inequalities in complementary systems of spaces, and the theory of K-rotation. (Russian) **98b:90147**
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Kocan, Maciej (*with* Soravia, Pierpaolo; Święch, Andrzej) On differential games for infinite-dimensional systems with nonlinear, unbounded operators. (English summary) **98j:90110**
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Pichór, Katarzyna (*with* Rudnicki, Ryszard) Asymptotic behaviour of Markov semigroups and applications to transport equations. (English summary) **98j:47091**
Rudnicki, Ryszard *see* **Pichór, Katarzyna, 98j:47091**
Simon, Barry Cyclic vectors in the Anderson model. (English summary) (*see* **98c:82001**)
Song, Degong (*with* Zhu, Guang Tian) An improvement on Jorgen's asymptotic expansion theorem for transport equation. (English summary) **98h:82064**
— Some notes on the spectral properties of C_0 semigroups generated by linear transport operators. (English summary) **98f:47051**
Suchanecki, Zdzisław *see* **Antoniou, Ioannis E., 98h:82038**
Tabata, Minoru (*with* Eshima, Nobuoki) The spectrum of the transport operator with a potential term under the spatial periodicity condition. (English summary) **98i:47049**
Teta, Alessandro *see* **Dell'Antonio, Gianfausto; et al., 98m:81027**
Totaro, Silvia *see* **Borgioli, Giovanni, 98d:82043; Lauro, Giuliana, 98f:35123** *and* **Bartoli, Lorenzo, 98k:47075**
Wang, Mian Sen *see* **Peng, Ji Gen; et al., 98j:47088**
Wang, Sheng Hua (*with* Yang, Ming Zhu; Xu, Gen Qi) The spectrum of the transport operator with generalized boundary conditions. (English summary) **98c:82068**
— *see also* **Xu, Gen Qi; et al., 98h:82065** *and* **98m:47081**
Wang, Wenlong (*with* Yang, Ming Zhu) The generalization and applications of Kato's perturbation theorem. (English summary) **98g:47013**
Wang, Xue Ping[1] *see* **Klein, Markus; et al., 98c:81247**
Xu, Gen Qi Integrated bisemigroups and the solvability of abstract kinetic equations. (Chinese. English and Chinese summaries)
— (*with* Yang, Ming Zhu; Wang, Sheng Hua) The completeness of a system of generalized eigenfunctions for the transport operator in a general nonhomogeneous convex medium. (Chinese. English and Chinese summaries) **98m:47081**
— (*with* Yang, Ming Zhu; Wang, Sheng Hua) On the eigenfunction expansion of the transport semigroup for a bounded convex body. (English summary) **98h:82065**
— *see also* **Wang, Sheng Hua; et al., 98c:82068**
Yang, Ming Zhu *see* **Wang, Sheng Hua; et al., 98c:82068; Wang, Wenlong, 98g:47013; Xu, Gen Qi; et al., 98h:82065** *and* **98m:47081**
Yoo, Hyun Jae *see* **Lim, Hye Young; et al., 98i:60074**
Zhang, Xianwen (*with* Liang, Benzhong) The spectrum of a one-velocity transport operator with integral boundary conditions of Maxwell type. (English summary) **98f:82121**
Zhu, Guang Tian *see* **Song, Degong, 98h:82064** *and* **Peng, Ji Gen; et al., 98j:47088**

47N60 Applications in biology and other sciences

Items with secondary classifications in 47N60

Alaoui, Larbi A cell cycle model and translation semigroups. (English summary) **98a:92004**
Arov, Damir Zyamovich (*with* Kaashoek, M. A.; Pik, D. R.) Minimal and optimal linear discrete time-invariant dissipative scattering systems. (English summary) **98h:47015**
Iannelli, Mimmo (*with* Martcheva, Maia) A semigroup approach to the well posedness of an age-structured two-sex population model. (English summary) **98i:92031**
Jaffard, Stéphane (*with* Tucsnak, Marius) Regularity of plate equations with control concentrated in interior curves. (English summary) **98m:35204**
Kaashoek, M. A. *see* **Arov, Damir Zyamovich; et al., 98h:47015**
Latrach, Khalid (*with* Mokhtar-Kharroubi, Mustapha) On an unbounded linear operator arising in the theory of growing cell population. (English summary) **98g:47031**
Lumer, Günter Singular evolution problems, regularization, and applications to physics, engineering, and biology. **98d:34093**
Martcheva, Maia *see* **Iannelli, Mimmo, 98i:92031**
Matsumoto, Toshitaka (*with* Oharu, Shinnosuke; Thieme, Horst R.) Nonlinear perturbations of a class of integrated semigroups. (English summary) **98a:47070**
Mokhtar-Kharroubi, Mustapha *see* **Latrach, Khalid, 98g:47031**
Oharu, Shinnosuke *see* **Matsumoto, Toshitaka; et al., 98a:47070**
Pik, D. R. *see* **Arov, Damir Zyamovich; et al., 98h:47015**
Thieme, Horst R. *see* **Matsumoto, Toshitaka; et al., 98a:47070**
Tucsnak, Marius *see* **Jaffard, Stéphane, 98m:35204**

47N70 Applications in systems theory, circuits, etc.

Ionescu, Vlad (*with* Oară, Cristian) The time-varying discrete four block Nehari problem: a generalized Popov-Yakubovich type approach. (English summary) **98h:47090**
Michaletzky, György A note on Hankel approximation of all-pass functions. (English summary) **98f:47075**
Oară, Cristian *see* **Ionescu, Vlad, 98h:47090**

Items with secondary classifications in 47N70

Alpay, Daniel (*with* Bolotnikov, Vladimir; Loubaton, Philippe) Dissipative periodic systems and symmetric interpolation in Schur classes. (English summary) **98f:47014**
Ammar Khodja, Farid (*with* Benabdallah, Assia; Teniou, Djamal E.) Dynamical stabilizers and coupled systems. (English summary) **98k:93091**
Arova, Z. D. The functional model of a j-unitary node with a given j-inner characteristic matrix function. (English summary) **98d:47033**
Bakonyi, Mihály (*with* Kaftal, Victor G.; Weiss, Gary; Woerdeman, Hugo J.) Bounds for operator/Hilbert-Schmidt norm minimization using entropy. (English summary) **98j:47034**
Balachandran, Krishnan (*with* Dauer, Jerald P.) Controllability of Sobolev-type integrodifferential systems in Banach spaces. (English summary) **98k:93011**
Balakrishnan, A. V. On superstable semigroups of operators. (English summary) **98b:47052**
Ball, Joseph A. The nonlinear Nevanlinna-Pick interpolation problem. (English summary) **98a:47012**

— Commutant lifting and interpolation: the time-varying case. (English summary) **98c:47006**
Bart, H. (*with* Gohberg, Israel; Kaashoek, M. A.) Wiener-Hopf equations and linear systems. (English summary) **98a:47026**
Belinskiĭ, B. P. *see* **Shubov, Marianna A.; et al., 98i:93009**
Belyi, S. V. (*with* Tsekanovskiĭ, E. R.) Realization theorems for operator-valued R-functions. (English summary) **98k:47018**
Benabdallah, Assia *see* **Ammar Khodja, Farid; et al., 98k:93091**
Bolotnikov, Vladimir *see* **Alpay, Daniel; et al., 98f:47014**
Bounit, H. (*with* Hammouri, H.) Stabilization of infinite-dimensional semilinear systems with dissipative drift. (English summary) **98k:93093**
Calvert, Bruce D. Unicursal resistive networks. (English summary) **98f:94026**
Chen, Guanrong *see* **Chui, Charles K., 98c:93002**
Chui, Charles K. (*with* Chen, Guanrong) ★ Discrete H^∞ optimization. (English summary) **98c:93002**
Curtain, Ruth F. (*with* Logemann, Hartmut; Townley, Stuart; Zwart, Hans) Well-posedness, stabilizability, and admissibility for Pritchard-Salamon systems. (English summary) **98h:93015**
Dauer, Jerald P. *see* **Shubov, Marianna A.; et al., 98i:93009** *and* **Balachandran, Krishnan, 98k:93011**
Dolezal, Vaclav Input-output systems whose transmission operators furnish nearly best approximations to a given map. (English summary) **98k:93009**
— On a "central inequality" in the theory of input-output systems. (English summary) **98k:93010**
Efremov, A. A. *see* **Sviridyuk, G. A., 98c:93025**
Èĭrola, T. Stability of systems with incomplete correlations. The case of selfadjoint operators. (Russian. Russian summary) **98a:93050**
Feintuch, Avraham ★ Robust control theory in Hilbert space. (English summary) **98j:93001**
Ferretti, Roberto Convergence of semidiscrete approximations to optimal control problems in Hilbert spaces: a counterexample. (English summary) **98i:49033**
Fuhrmann, Paul A. (*with* Hoffmann, Jörg W.) Factorization theory for stable, discrete-time inner functions. (English summary) **98i:93014**
— *see also* **Operators, systems, and linear algebra, 98k:93005**
Gaĭshun, Ivan Vasil'evich Controllability, stability and stabilizability problems for continuous-discrete 2-D systems. (English summary) **98j:93009**
Gohberg, Israel *see* **Bart, H.; et al., 98a:47026**
Groenewald, G. J. (*with* Petersen, Mark Adam; Zucker, Y.) Left versus right canonical Wiener-Hopf factorization and realization. (English summary) **98h:47025**
Hammouri, H. *see* **Bounit, H., 98k:93093**
Hansen, Scott W. (*with* Weiss, George) New results on the operator Carleson measure criterion. (English summary) **98c:93064**
(Helmke, Uwe) *see* **Operators, systems, and linear algebra, 98k:93005**
Hoffmann, Jörg W. Normalized coprime factorizations in continuous and discrete time—a joint state-space approach. (English summary) **98f:93005**
— *see also* **Fuhrmann, Paul A., 98i:93014**
Howlett, P. G. *see* **Torokhtiĭ, A. P., 98c:41039**
Iglesias, Paùlo A. An entropy formula for time-varying discrete-time control systems. (English summary) **98j:93031**
Ito, Kazufumi (*with* Morris, K. A.) An approximation theory of solutions to operator Riccati equations for H^∞ control. (English summary) **98m:93036**
Jonckheere, Edmond A. (*with* Li, Rong Sheng[1]) Hankel operator and H_∞ distance problem over a simply-connected domain. (English summary) **98j:93032**
Kaashoek, M. A. *see* **Bart, H.; et al., 98a:47026**
Kaftal, Victor G. *see* **Bakonyi, Mihály; et al., 98j:47034**
Kimura, Hidenori ★ Chain-scattering approach to H^∞ control. (English summary) **98c:93005**
Klamka, Jerzy Approximate controllability of delayed dynamical systems. (English summary) **98j:93011**
Komornik, Vilmos A generalization of Ingham's inequality. (*see* **98e:00018**)
Korobov, V. I. (*with* Sklyar, G. M.) Local and global exact controllability in Hilbert space. (English, Russian and Ukrainian summaries) **98m:93016**
Lanari, Leonardo *see* **de Santis, Alberto, 98h:93009**
Lasiecka, Irena (*with* Pandolfi, L.; Triggiani, Roberto) A singular control approach to highly damped second-order abstract equations and applications. (English summary) **98h:93014**
Lee, David[2] (*with* Woźniakowski, Henryk) Testing linear operators. (English summary) **98a:47011**
Li, Rong Sheng[1] *see* **Jonckheere, Edmond A., 98j:93032**
Liu, Kang Sheng Locally distributed control and damping for the conservative systems. (English summary) **98g:93005**
Logemann, Hartmut *see* **Curtain, Ruth F.; et al., 98h:93015**
Loubaton, Philippe *see* **Alpay, Daniel; et al., 98f:47014**
Martin, Clyde F. *see* **Shubov, Marianna A.; et al., 98i:93009**
Morris, K. A. *see* **Ito, Kazufumi, 98m:93036**
Pandolfi, L. *see* **Lasiecka, Irena; et al., 98h:93014**
Partington, J. R. (*with* Ünalmış, B.) On the representation of shift-invariant operators by transfer functions. (English summary) **98k:93023**
Peller, V. V. (*with* Treil, Sergei) Approximation by analytic matrix functions: the four block problem. (English summary) **98h:47021**
Petersen, Mark Adam *see* **Groenewald, G. J.; et al., 98h:47025**
Prasanth, Ravi K. (*with* Rotea, Mario A.) Interpolation with multiple norm constraints. (English summary) **98k:93034**
(Prätzel-Wolters, Dieter) *see* **Operators, systems, and linear algebra, 98k:93005**
Ran, André C. M. (*with* Rodman, Leiba) Rate of stability of solutions of matrix polynomial and quadratic equations. (English summary) **98b:15016**
Rebarber, R. (*with* Townley, Stuart) Stabilization of distributed parameter systems by piecewise polynomial control. (English summary) **98j:93073**
Rodman, Leiba *see* **Ran, André C. M., 98b:15016**
Rotea, Mario A. *see* **Prasanth, Ravi K., 98k:93034**
Sadkowski, Wawrzyniec Global exact controllability for generalized wave equation. **98k:93015**
de Santis, Alberto (*with* Lanari, Leonardo) Disturbance attenuation for a class of distributed parameter systems. (English summary) **98h:93009**
Shklyar, B. On approximate null-controllability for distributed systems with unbounded input operators. (English summary) **98e:93010**
Shubov, Marianna A. (*with* Martin, Clyde F.; Dauer, Jerald P.; Belinskiĭ, B. P.) Exact controllability of the damped wave equation. (English summary) **98i:93009**
Sklyar, G. M. *see* **Korobov, V. I., 98m:93016**
Stepanov, Eugene Topological degree for systems of functional equations arising in control theory. **98j:47147**
Stoorvogel, Anton A. Stabilizing solutions of the H_∞ algebraic Riccati equation. (English summary) **98d:93047**
Sviridyuk, G. A. (*with* Efremov, A. A.) Optimal control of Sobolev-type linear equations with relatively p-spectorial operators. (Russian. Russian summary) **98c:93025**
Teniou, Djamal E. *see* **Ammar Khodja, Farid; et al., 98k:93091**
Torokhtiĭ, A. P. (*with* Howlett, P. G.) On the constructive approximation of non-linear operators in the modelling of dynamical systems. (English summary) **98c:41039**
Townley, Stuart *see* **Curtain, Ruth F.; et al., 98h:93015** *and* **Rebarber, R., 98j:93073**
Treil, Sergei *see* **Peller, V. V., 98h:47021**
Triggiani, Roberto The algebraic Riccati equation with unbounded control operator: the abstract hyperbolic case revisited. (English summary) **98i:49027**
— *see also* **Lasiecka, Irena; et al., 98h:93014**
Tsekanovskiĭ, E. R. *see* **Belyi, S. V., 98k:47018**
Ünalmış, B. *see* **Partington, J. R., 98k:93023**
Vũ Ngọc Phát ★ Constrained control problems of discrete processes. **98g:93029**
Wang, Qin Positive invertible operator matrices family. (English and Chinese summaries) **98d:47026**
Weiss, Gary *see* **Bakonyi, Mihály; et al., 98j:47034**
Weiss, George *see* **Hansen, Scott W., 98c:93064**
Woerdeman, Hugo J. *see* **Bakonyi, Mihály; et al., 98j:47034**
Woźniakowski, Henryk *see* **Lee, David[2], 98a:47011**
(Zerz, Eva) *see* **Operators, systems, and linear algebra, 98k:93005**
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Zwart, Hans *see* **Curtain, Ruth F.; et al., 98h:93015**

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Festschrift:
Fuhrmann, Paul A. ★ Operators, systems, and linear algebra. **98k:93005**
Kaiserslautern ★ Operators, systems, and linear algebra. **98k:93005**
Operators, systems, and linear algebra ★ Operators, systems, and linear algebra. **98k:93005**
Workshop:
Operators, Systems, and Linear Algebra: Three Decades of Algebraic Systems Theory ★ Operators, systems, and linear algebra. **98k:93005**

47N99 None of the above, but in this section

Items with secondary classifications in 47N99

Belitskiĭ, G. Multidimensional functional equations generated by affine transformations. (English summary) **98j:47067**

47Sxx Other (nonclassical) types of operator theory [see also 46Sxx]

47S10 Operator theory over fields other than R, C or the quaternions; non-Archimedean operator theory

Items with secondary classifications in 47S10

Alberverio, Sergio (*with* Cianci, Roberto; Khrennikov, Andrei) On the spectrum of the p-adic position operator. (English summary) **98g:81027**
Ali, Nasr Mostafa *see* **Kubiaczyk, Ireneusz, 98a:47063**
Araujo, Jesús Isometries in spaces of non-Archimedean continuous functions. **98d:46084**
Cianci, Roberto *see* **Alberverio, Sergio; et al., 98g:81027**
Diarra, Bertin Base de Mahler et autres. [The Mahler basis and other bases] **98e:46093**
Katsaras, A. K. (*with* Pérez-García, Cristina) Λ_0-nuclear operators and Λ_0-nuclear spaces in p-adic analysis. (English summary) **98f:46063**
Khrennikov, Andrei *see* **Alberverio, Sergio; et al., 98g:81027**
Kochubeĭ, A. N. Additive and multiplicative fractional differentiations over the field of p-adic numbers. **98j:26002**
Kozyrev, S. V. An ultrametric space of free coherent states. (Russian. English and Russian summaries) **98i:81094**
Kubiaczyk, Ireneusz (*with* Ali, Nasr Mostafa) A multivalued fixed point theorems in non-Archimedean vector spaces. (English summary) **98a:47063**
Pérez-García, Cristina *see* **Katsaras, A. K., 98f:46063**
Sirajudeen, S. M. (*with* Sulaiman, A.) Matrix transformations of some sequence spaces over non-Archimedian fields. (English summary) **98a:40007**
Somasundaram, D. On a theorem of Robinson for non-Archimedian Banach spaces. (English summary) **98b:46100**
Sulaiman, A. *see* **Sirajudeen, S. M., 98a:40007**

47S20 Nonstandard operator theory [see also 03H05]

Items with secondary classifications in 47S20

Gordon, E. I. ★ Nonstandard methods in commutative harmonic analysis. (English summary) **98f:03056**
(McFaden, H. H.) *see* **Gordon, E. I., 98f:03056**

Ortiz, C. E. Approximate truth and nonstandard analysis. (English summary) (*see* **98h:03084**)

47S40 Fuzzy operator theory [see also 04A72]

Chō, Muneo *see* **Itoh, Masuo**, **98k:47143**
Itoh, Masuo (*with* Chō, Muneo) Fuzzy bounded operators. (English summary) **98k:47143**
Yan, Shi Yu An extension theorem for bounded linear operators over fuzzy normed spaces. (Chinese. English and Chinese summaries)

Items with secondary classifications in 47S40

Balachandran, Krishnan (*with* Dauer, Jerald P.) Existence of solutions of perturbed fuzzy integral equations in Banach spaces. (English summary) **98m:45008**
Cubiotti, Paolo (*with* Lin, K. L.; Yao, Jen Chih) Generalized quasi-variational inequalities for fuzzy mappings. (English summary) **98c:49023**
Dauer, Jerald P. *see* **Balachandran, Krishnan**, **98m:45008**
Lee, Byung Soo *see* **Zhang, Shi Sheng; et al.**, **98d:47155**
Lee, Gue Myung *see* **Zhang, Shi Sheng; et al.**, **98d:47155**
Lin, K. L. *see* **Cubiotti, Paolo; et al.**, **98c:49023**
Subrahmanyam, P. V. (*with* Sudarsanam, S. K.) An existence theorem for a fuzzy functional integral equation. (English summary) **98i:45009**
Sudarsanam, S. K. *see* **Subrahmanyam, P. V.**, **98i:45009**
Yao, Jen Chih *see* **Cubiotti, Paolo; et al.**, **98c:49023**
Zhang, Shi Sheng (*with* Lee, Gue Myung; Lee, Byung Soo) Vector quasivariational inequalities for fuzzy mappings. I. (English summary) **98d:47155**

47S50 Operator theory in probabilistic metric linear spaces

Cho, Yeol Je *see* **Zhang, Shi Sheng; et al.**, **98c:47085**
Gong, Huai Yun *see* **Xiang, Shu Huang; et al.**
Jiang, Xing Guo *see* **Xiao, Jian Zhong**, **98d:47165**
Jung, Jong Soo *see* **Zhang, Shi Sheng; et al.**, **98c:47085**
Luo, Qun Variational inequalities for random inner product modules. (Chinese. English and Chinese summaries) **98g:47065**
Wang, Fan[1] *see* **Zhang, Shi Sheng; et al.**, **98c:47085**
Xiang, Shu Huang (*with* Gong, Huai Yun; You, Zhao-yong) Some properties of spaces of operators on locally bounded and locally convex probabilistic normed spaces. (Chinese. English and Chinese summaries)
Xiao, Jian Zhong (*with* Jiang, Xing Guo) Probabilistic norm of linear operators on PN space. (Chinese) **98d:47165**
You, Zhao-yong *see* **Xiang, Shu Huang; et al.**
Zhang, Shi Sheng (*with* Cho, Yeol Je; Jung, Jong Soo; Wang, Fan[1]) Nonlinear operator equations with probabilistic contractors in probabilistic normed spaces. (English summary) **98c:47085**

Items with secondary classifications in 47S50

Chen, Ru Dong Solutions and applications of a class of random set-valued Ky Fan variational inequalities. (Chinese. English and Chinese summaries) **98k:47128**
Cho, Yeol Je *see* **Zhang, Shi Sheng; et al.**, **98k:54082**
Hicks, Troy L. Multivalued mappings on probabilistic metric spaces. (English summary)
Jeong, G. S. An interesting property of probabilistic 2-metric spaces. (English summary)
Jin, B. J. *see* **Kim, Jong Kyu**, **98e:34110**
Kim, Jong Kyu (*with* Jin, B. J.) On the existence and uniqueness of solutions for nonlinear differential equations in probabilistic normed spaces. (English summary) **98e:34110**
— *see also* **Zhang, Shi Sheng; et al.**, **98k:54082**
Luo, Qun (*with* Sun, Tian Xiang) Properties of positive operators on random inner product modules. (Chinese. English and Chinese summaries)
Sun, Tian Xiang *see* **Luo, Qun**
Zhang, Shi Sheng (*with* Cho, Yeol Je; Kim, Jong Kyu) Ekeland's variational principle and Caristi's coincidence theorem for set-valued mappings in probabilistic metric spaces. (English summary) **98k:54082**

49–XX Calculus of variations and optimal control; optimization [see also 34H05, 65Kxx, 90Cxx, 93–XX]

49–01 Instructional exposition (textbooks, tutorial papers, etc.)

Black, Kelly Putting constraints in optimization for first-year calculus students. (English summary) **98a:49001**
Jones, Alan Stuart Discontinuities in geometric optimization.
Whittle, Peter ★ Optimal control. **98b:49001**

49–02 Research exposition (monographs, survey articles)

Aubin, Jean-Pierre ★ Neural networks and qualitative physics. (English summary) **98a:49002**
Chentsov, A. G. ★ Finitely additive measures and relaxations of extremal problems. **98a:49003**
Giaquinta, Mariano (*with* Hildebrandt, Stefan) ★ Calculus of variations. I. **98b:49002a**
— (*with* Hildebrandt, Stefan) ★ Calculus of variations. II. **98b:49002b**
Hildebrandt, Stefan *see* **Giaquinta, Mariano, 98b:49002a** *and* **98b:49002b**
(Kolmanovskiĭ, V. B.) *see* **Piunovskiĭ, A. B., 98k:49001**
(Lutsuk, A. V.) *see* **Chentsov, A. G., 98a:49003**
Pallaschke, Diethard (*with* Rolewicz, Stefan) ★ Foundations of mathematical optimization. (English summary) **98f:49001**
Pedregal, Pablo ★ Parametrized measures and variational principles. (English summary) **98e:49001**
Piunovskiĭ, A. B. ★ Optimal control of random sequences in problems with constraints. **98k:49001**
Polak, Elijah ★ Optimization. (English summary) **98g:49001**
Rockafellar, R. Tyrrell (*with* Wets, Roger J.-B.) ★ Variational analysis. **98m:49001**
Rolewicz, Stefan *see* **Pallaschke, Diethard, 98f:49001**
Roubíček, Tomáš ★ Relaxation in optimization theory and variational calculus. (English summary) **98e:49002**
(Rubinov, Aleksandr M.) *see* **Singer, Ivan, 98k:49002**
(Shiryaev, Albert N.) *see* **Piunovskiĭ, A. B., 98k:49001**
Singer, Ivan ★ Abstract convex analysis. **98k:49002**
Struwe, Michael ★ Variational methods. **98f:49002**
Vasil'ev, O. V.[1] ★ Optimization methods. **98e:49003**
Wets, Roger J.-B. *see* **Rockafellar, R. Tyrrell, 98m:49001**

Items with secondary classifications in 49–02

Chentsov, A. G. ★ Asymptotic attainability. (English summary) **98a:93001**
Hu, Shouchuan (*with* Papageorgiou, Nikolaos S.) ★ Handbook of multivalued analysis. Vol. I. (English summary) **98k:47001**
Kryazhimskii, Arkadii V. *see* **Osipov, Yu. S., 98b:93004**
Kumar, Renjith R. *see* **Seywald, Hans, 98e:49070**
Osipov, Yu. S. (*with* Kryazhimskii, Arkadii V.) ★ Inverse problems for ordinary differential equations: dynamical solutions. (English summary) **98b:93004**
Papageorgiou, Nikolaos S. *see* **Hu, Shouchuan, 98k:47001**
Pastravanu, Octavian C. *see* **Voicu, Mihail, 98m:93006**
Seywald, Hans (*with* Kumar, Renjith R.) Some recent developments in computational optimal control. (English summary) **98e:49070**
Voicu, Mihail (*with* Pastravanu, Octavian C.) ★ Non-recursive models in control system analysis and design. (English summary) **98m:93006**

49–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 49–03

(Almgren, Frederick J., Jr.) *see* **White, Brian Cabell**
Belloni, Marino (*with* Kawohl, Bernhard) A paper of Legendre revisited. (English summary) **98j:01017**
Hildebrandt, Stefan The calculus of variations today [MR 88f:49002]. (Finnish) (*see* **98d:00001**)
Kawohl, Bernhard *see* **Belloni, Marino, 98j:01017**
Morse, Marston ★ The calculus of variations in the large. **98f:58070**
Thiele, Rüdiger On some contributions to field theory in the calculus of variations from Beltrami to Carathéodory. (English, German and Italian summaries) **98h:01023**
White, Brian Cabell The mathematics of F. J. Almgren Jr.

49–04 Explicit machine computation and programs (not the theory of computation or programming)

Gill, Philip E. *see* **Petzold, Linda R.; et al., 98f:49003**
Jay, Laurent O. *see* **Petzold, Linda R.; et al., 98f:49003**
Park, Kihong *see* **Petzold, Linda R.; et al., 98f:49003**
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49Jxx Existence theory for optimal solutions

49J05 Free problems in one independent variable

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Samborskiĭ, S. N. The Lagrange problem from the point of view of idempotent analysis. (*see* **98i:00020**)

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— (*with* Fusco, Nicola; Pallara, Diego) Partial regularity of free discontinuity sets. II. **98j:49051**
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49J15 Optimal control problems involving ordinary differential equations

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Fazylov, A. Z. (*with* Absametov, B.) The survival problem for linear control systems with integral constraints. (Russian. Russian summary) **98m:49005**

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Zhu, Shi Jing (*with* Dai, Jian She; Chen, Ting[1]) Incentive equilibria for dynamic bargaining games. (Chinese. English and Chinese summaries)

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— Optimal control of the one-dimensional periodic wave equation. (English summary) **98b:49006**

— Optimal control of linear periodic resonant systems in Hilbert spaces. (English summary) **98j:49004**

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— Optimal control of Navier-Stokes equations with periodic inputs. **98j:49005**

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Bradley, M. E. (*with* Lenhart, Suzanne) Bilinear optimal control of a Kirchhoff plate to a desired profile. (English summary) **98i:49001**

Buttazzo, Giuseppe (*with* Faina, Loris) Existence for optimal control problems governed by noncoercive state equations. (English summary) **98e:49009**

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Stojanovic, Srdjan Perturbation formula for regular free boundaries in elliptic and parabolic obstacle problems. (English summary) **98j:49008**
Sumin, M. I. Suboptimal control of systems with distributed parameters: normality properties and a dual subgradient method. (Russian. Russian summary) **98a:49011**
Sumin, V. I. A convenient form for the description of distributed control systems. (Russian. Russian summary) **98c:49011**
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Frigon, Marlène On a critical point theory for multivalued functionals and application to partial differential inclusions. **98k:58045**
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— A class of domain optimization problems. (Chinese. Chinese summary) **98j:49056**
Gogodze, I. (*with* Chinchaladze, S.) Generalized controls in a problem of the synthesis of optical media. (Russian. English and Georgian summaries) **98b:78024**
Hou, LiSheng (*with* Yan, Yin) Dynamics and approximations of a velocity tracking problem for the Navier-Stokes flows with piecewise distributed controls. (English summary) **98j:35142**
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Kärkkäinen, Tommi Distributed parameter identification with equation error method. (English summary) **98i:35206**
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Ryu, Jong-Won (*with* Park, Jong Yeoul; Kwun, Young Chel) Minimum-time problem of nonlinear control system on separable reflexive Banach spaces. (English summary) **98a:49042**
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Aubin, Jean-Pierre (*with* Frankowska, Halina) Set-valued solutions to the Cauchy problem for hyperbolic systems of partial differential inclusions. (English summary) **98d:49003**
Cardaliaguet, Pierre On the regularity of semipermeable surfaces in control theory with application to the optimal exit-time problem. I. (English summary) **98i:49002**
— On the regularity of semipermeable surfaces in control theory with application to the optimal exit-time problem. II. (English summary) **98i:49003**
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Cernea, Aurelian (*with* Mirică, Ştefan) Minimum principle for some classes of nonconvex differential inclusions. **98g:49004**
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— (*with* Saint-Pierre, Patrick) Scale of viability and minimal time of crisis. (English summary) **98i:49004**
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— (*with* Castaing, Charles; Salvadori, Anna) Compactness and discretization methods for differential inclusions and evolution problems. (English summary) **98d:34025**
Cârjă, Ovidiu (*with* Vrabie, Ioan I.) Some new viability results for semilinear differential inclusions. (English summary) **98a:34029**
Carlson, Dean A. Asymptotic stability for a class of delay differential inclusions. (English summary) **98i:34111**
Castaing, Charles (*with* Monteiro Marques, Manuel D. P.) Topological properties of solution sets for sweeping processes with delay. (English summary) **98k:34127**
— *see also* **Benabdellah, H.; et al., 98c:34096** *and* **98d:34025**
Constantin, Adrian On the global existence of solutions of differential inclusions. (Italian summary) **98c:34018**
Conti, Giuseppe (*with* Obukhovskiĭ, Valeri; Zecca, Pietro) On the topological structure of the solution set for a semilinear functional-differential inclusion in a Banach space. (English summary) **98b:34103**
Denkowski, Z. (*with* Migórski, Stanisław; Mortola, S.) Differential inclusions and minimizing movements. (English and Italian summaries) **98b:34031**
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— Lower semicontinuous differential inclusions. One-sided Lipschitz approach. (English summary) **98i:34026**

Hu, Shouchuan (*with* Papageorgiou, Nikolaos S.) Time-dependent subdifferential evolution inclusions and optimal control. (English summary) **98j:34120**
Ibrahim, A. G. Functional evolution equations with nonconvex lower semicontinuous multivalued perturbations. (English summary) **98k:34129**
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Liu, Xiao Hua (*with* Wang, Zhi Hua) Topological properties of the set of viable solutions to a differential inclusion. (Chinese. English and Chinese summaries) **98e:34026**
Malaguti, Luisa Monotone trajectories of differential inclusions in Banach spaces. (English summary) **98d:34026**
Marano, Salvatore A. (*with* Staicu, V.) On the set of solutions to a class of nonconvex nonclosed differential inclusions. **98h:34032a**
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Rosenblueth, Javier F. (*with* Warga, J.; Zhu, Qiji J.) On the characterization of properly relaxed delayed controls. (English summary) **98k:49012**
— A characterization of relaxed controls with commensurate delays. (English summary)
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Carlson, Dean A. Overtaking optimal solutions for convex Lagrange problems with time delay. (English summary) **98c:49051**
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Jiang, Wei (*with* Zheng, Zu Xiu) The optimal control of delay control systems with restricted state right endpoint. (Chinese. English and Chinese summaries)
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Park, Jong Yeoul (*with* Jeong, Jin-Mun; Kwun, Young Chel) Optimal control for retarded control system. **98e:49062**
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Flores-Bazán, Fabián Approximate minima via the Ekeland variational principle. (English summary)
Jačimović, Milojica (*with* Krnić, I.; Potapov, M. M.) On well-posedness of quadratic minimization problem on ellipsoid and polyhedron. (English summary) **98i:49005**
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Sapronov, Yu. I. Finite-dimensional reductions in the analysis of the branching of extremals. (Russian. Russian summary) **98c:49013**
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Chu, Liang-Ju On Mosco's convergence of optimization problems. (English summary) **98b:49021**
Desaint, Fabrice (*with* Zolésio, Jean-Paul) Dérivation de forme dans les problèmes elliptiques tangentiels. (English and French summaries) [Shape derivative for tangential elliptic problems] **98a:49066**
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Kokurin, M. Yu. On the discrete regularization of nonlinear equations and optimal control problems by singular systems. (Russian) **98i:49035**
Le, Vy Khoi (*with* Schmitt, Klaus) On minimizing noncoercive functionals on weakly closed sets. (English summary) **98h:35064**
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Roubíček, Tomáš (*with* Schmidt, Werner H.) Existence of solutions of certain nonconvex optimal control problems governed by nonlinear integral equations. (English summary) **98g:49003**
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Schochetman, I. E. (*with* Smith, Robert L.; Tsui, Sze-Kai) Solution existence for infinite quadratic programming. (English summary) **98i:90064**
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49J50 Fréchet and Gateaux differentiability [see also 46G05, 58C20]

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Zhang, Jianzhong (*with* Xu, Cheng Xian; Fan, Yuan-An) A SLP method with a quadratic correction step for nonsmooth optimization. (English summary) **98h:90087**
Zhang, Jinyun (*with* Mond, Bertram) Duality for a non-differentiable programming problem. (English summary) **98b:49027**
Zheng, Harry H. *see* **Vinter, Richard B., 98e:49061**
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Zhuang, Jian Nan *see* **Kong, Min**
Zlateva, Nadia P. *see* **Georgiev, Pando Gr., 98i:46039**
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49J55 Problems involving randomness [see also 93E20]

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Balzano, Michele (*with* Corbo Esposito, Antonio; Paderni, G.) Nonlinear Dirichlet problems in randomly perforated domains. (English and Italian summaries) **98m:35058**
Basak, Gopal K. (*with* Bisi, Arnab; Ghosh, Mrinal K.) Controlled random degenerate diffusions under long-run average cost. (English summary) **98i:93086**
Bisi, Arnab *see* **Basak, Gopal K.; et al., 98i:93086**
Buckdahn, Rainer (*with* Quincampoix, Marc; Rascanu, Aurel) Propriété de viabilité pour des équations différentielles stochastiques rétrogrades et applications à des équations aux dérivées partielles. (English and French summaries) [Viability for backward stochastic differential equations, applications to PDE's] **98g:60104**
Corbo Esposito, Antonio *see* **Balzano, Michele; et al., 98m:35058**
Ghosh, Mrinal K. *see* **Basak, Gopal K.; et al., 98i:93086**
Hagander, P. *see* **Hansson, Anders, 98d:93101**
Hansson, Anders (*with* Hagander, P.) Existence of minimum upcrossing controllers. (English summary) **98d:93101**
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Paderni, G. *see* **Balzano, Michele; et al., 98m:35058**
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Presman, È. L. Optimality almost surely and in probability for a stochastic linear-quadratic regulator. (Russian. Russian summary) **98m:93120**
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Rascanu, Aurel *see* **Buckdahn, Rainer; et al., 98g:60104**
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Thieullen, M. (*with* Zambrini, J. C.) Symmetries in the stochastic calculus of variations. (English summary) **98g:60142**
Yin, Gang George (*with* Zhang, Qing[1]) Control of dynamic systems under the influence of singularly perturbed Markov chains. (English summary) **98m:93121**
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49J99 None of the above, but in this section

Cao, Bing Yuan Variational problems for conditional extrema of interval-valued and fuzzy-valued functionals. (Chinese. English and Chinese summaries)
Morel, Jean-Michel The Mumford-Shah conjecture in image processing. (French summary) **98k:49030**

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Bhattacharya, Kaushik (*with* Kohn, Robert V.) Elastic energy minimization and the recoverable strains of polycrystalline shape-memory materials. (English summary) **98j:73025**
Chambolle, Antonin (*with* Lions, Pierre-Louis) Image recovery via total variation minimization and related problems. (English summary) **98c:65099**
El Bachari, Essaid Modélisation d'une jonction 3d-2d en élasticité non linéaire par Γ-convergence. (English and French summaries) [Modelling of a 3d-2d junction in nonlinear elasticity by Γ-convergence] **98m:73031**
Kohn, Robert V. *see* **Bhattacharya, Kaushik**, **98j:73025**
Lions, Pierre-Louis *see* **Chambolle, Antonin**, **98c:65099**
Lucet, Yves Faster than the fast Legendre transform, the linear-time Legendre transform. (English summary) **98m:65221**
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Šestak, Ivan An example of optimal control in the scope of Signorini's problem with Coulomb friction. (English and Serbian summaries)

49Kxx Necessary conditions and sufficient conditions for optimality

49K05 Free problems in one independent variable

Bhatia, Davinder (*with* Kumar, Promila) Duality for variational problems with B-vex functions. (English summary) **98a:49030**
Chen, Jia-Wen (*with* Lai, Hang-Chin) On the generalized Euler-Lagrange equations. (English summary) **98h:49021**
Janković, Vladimir On necessary conditions in the calculus of variations. (English summary) **98h:49022**
Kumar, Promila *see* **Bhatia, Davinder**, **98a:49030**
Lai, Hang-Chin *see* **Chen, Jia-Wen**, **98h:49021**
Loewen, P. D. (*with* Rockafellar, R. Tyrrell) Bolza problems with general time constraints. (English summary) **98f:49021**
Rockafellar, R. Tyrrell *see* **Loewen, P. D.**, **98f:49021**

Items with secondary classifications in 49K05

Egorov, Yurii Vladimirovich On a Kondratiev problem. (English and French summaries) **98a:49004**
Lee, Richard C. H. (*with* Yung, Siu Pang) Optimality conditions and duality for a non-linear time-delay control problem. (English summary) **98k:49036**
Orpel, A. Periodic solutions of differential equations and nonconvex functionals in the calculus of variations. (English summary) **98e:49087**
Samborskiĭ, S. N. The Lagrange problem from the point of view of idempotent analysis. (*see* **98i:00020**)
Suslowska, Ewa The Weierstrass-type condition for a minimum in a Bolza optimal control problem. **98m:49043**
Yung, Siu Pang *see* **Lee, Richard C. H.**, **98k:49036**
Zezza, P. Errata corrige: "Jacobi condition for elliptic forms in Hilbert spaces" [J. Optim. Theory Appl. **76** (1993), no. 2, 357–380; MR 94a:49020]. (English summary)

49K10 Free problems in two or more independent variables

Došlá, Zuzana (*with* Došlý, Ondřej) Quadratic functionals with general boundary conditions. (English summary) **98e:49046**
Došlý, Ondřej *see* **Došlá, Zuzana**, **98e:49046**
Idczak, Dariusz The generalization of the Du Bois-Reymond lemma for functions of two variables to the case of partial derivatives of any order. (English summary) **98g:49015**
Sasahara, Yasuhiro Exterior plateau problem. (Japanese) (*see* **98f:00031**)

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Chen, Jia-Wen (*with* Lai, Hang-Chin) Moreau-Rockafellar type theorems for nonconvex and non-locally Lipschitz integral functional on $L^p(T, X)$. (English summary) **98c:49041**
Dacorogna, Bernard (*with* Haeberly, Jean-Pierre A.) On convexity properties of homogeneous functions of degree one. (English summary) **98a:49005**
Dierkes, Ulrich On the regularity of solutions for a singular variational problem. **98h:49042**
Giaquinta, Mariano (*with* Hildebrandt, Stefan) ★ Calculus of variations. I. **98b:49002a**
— (*with* Hildebrandt, Stefan) ★ Calculus of variations. II. **98b:49002b**
Haeberly, Jean-Pierre A. *see* **Dacorogna, Bernard**, **98a:49005**
Hildebrandt, Stefan *see* **Giaquinta, Mariano**, **98b:49002a** *and* **98b:49002b**
Janković, Vladimir On necessary conditions in the calculus of variations. (English summary) **98h:49022**
Lai, Hang-Chin *see* **Chen, Jia-Wen**, **98c:49041**
Ma, Ya Ming *see* **Peng, Shuang Jie**; **et al.**
Osmolovskiĭ, V. G. On a theorem of existence for scaling problems. (English summary) **98c:49039**
Papageorgiou, Nikolaos S. (*with* Papalini, Francesca; Vercillo, Susanna) On a nonstationary discrete time infinite horizon growth model with uncertainty. (English summary) **98a:90033**
Papalini, Francesca *see* **Papageorgiou, Nikolaos S.**; **et al.**, **98a:90033**
Pedregal, Pablo Some remarks on quasiconvexity and rank-one convexity. (English summary) **98a:49006**
Peng, Shuang Jie (*with* Zhang, Zheng Jie; Ma, Ya Ming) Some results on a class of constrained minimization problems. (Chinese. English and Chinese summaries)
Vercillo, Susanna *see* **Papageorgiou, Nikolaos S.**; **et al.**, **98a:90033**
Zhang, Zheng Jie *see* **Peng, Shuang Jie**; **et al.**

49K15 Problems involving ordinary differential equations

Agrachev, A. A. (*with* Sarychev, A. V.) Abnormal sub-Riemannian geodesics: Morse index and rigidity. (English and French summaries) **98e:49047**
Ancona, F. Homogeneous tangent vectors and high-order necessary conditions for optimal controls. (English summary) **98e:49048**
Arutyunov, Aram V. Investigation of quadratic forms of the calculus of variations with power degeneration on a small time interval. (Russian) **98a:49031**
— (*with* Aseev, S. M.) Investigation of the degeneracy phenomenon of the maximum principle for optimal control problems with state constraints. (English summary) **98g:49016**
— (*with* Okoulevitch, A. I.) Necessary optimality conditions for optimal control problems with intermediate constraints. (English summary) **98j:49028**
Aseev, S. M. *see* **Arutyunov, Aram V.**, **98g:49016**
Blot, Joël (*with* Hayek, Naïla) Second-order necessary conditions for the infinite-horizon variational problems. (English summary) **98a:49032**
Chanane, Bilal Bilinear quadratic optimal control: a recursive approach. (English summary)
D'Alessandro, Domenico (*with* Ferrante, Augusto) Optimal steering for an extended class of nonholonomic systems using Lagrange functionals. (English summary) **98j:49029**
Davideanu, Cătălina Maximum principle for control problems governed by multivalued bilinear differential equations. (Romanian summary)
Dmitruk, A. V. Quadratic order conditions of a local minimum for abnormal extremals. (*see* **98i:00030**)
Dunn, J. C. On second order sufficient conditions for structured nonlinear programs in infinite-dimensional function spaces. (English summary) **98i:49024**
Fazylov, A. Z. Sufficient conditions for optimality for the viability problem. (Russian. Russian summary)
Ferrante, Augusto *see* **D'Alessandro, Domenico**, **98j:49029**
Gao, Xuedong (*with* Li, Zongyuan) Synthesis of optimal feedback controls for piecewise linear system. (English and Chinese summaries) **98k:49031**
— (*with* Kirillova, F. M.) Optimization of control systems with a piecewise-linear output. (English summary) **98i:49025**
Garaev, K. G. A remark on the Bellman principle of optimality. (English summary) **98m:49041**
Gusev, D. E. Bounded turnpikes in a nonstationary problem of continuous optimization. (Russian. Russian summary) **98a:49033**
Hashimoto, Hiroaki *see* **Kataoka, H.**, (**98f:58004**)
Hayek, Naïla *see* **Blot, Joël**, **98a:49032**
Kataoka, H. (*with* Hashimoto, Hiroaki) A solution to a class of nonlinear optimal control problems derived from Noether's theorem. (English summary) (*see* **98f:58004**)
Kirillova, F. M. *see* **Gao, Xuedong**, **98i:49025**
Kiselev, Yu. N. (*with* Orlov, M. V.) A nonlinear boundary value problem for Pontryagin's maximum principle in a linear time-optimality problem. (Russian. Russian summary) **98b:49019**
Koga, Sayuri Conjugate points for optimal control problems. (Japanese) (*see* **98g:90004**)
Koon, Wang Sang (*with* Marsden, Jerrold E.) Optimal control for holonomic and nonholonomic mechanical systems with symmetry and Lagrangian reduction. (English summary) **98e:49049**
Kostina, E. A. (*with* Kostyukova, O. I.) Investigation of an optimal control problem with a mixed performance index. (Russian. Russian summary) **98c:49045**
Kostyukova, O. I. *see* **Kostina, E. A.**, **98c:49045**
Launay, Geneviève (*with* Pelletier, Michèle) The generic local structure of time-optimal synthesis with a target of codimension one in dimension greater than two. (English summary) **98f:49022**
Łędzewicz-Kowalewska, Urszula (*with* Schättler, Heinz) A second-order Dubovitskii-Milyutin theory and applications to control. **98j:49030**
— (*with* Schättler, Heinz) An extended maximum principle. **98d:49026**
Leizarowitz, Arie *see* **Zaslavski, Alexander J.**, **98g:49018**
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Marsden, Jerrold E. *see* **Koon, Wang Sang**, **98e:49049**
Mayne, D. Q. (*with* Schroeder, W. R.) Robust time-optimal control of constrained linear systems. (English summary) **98i:49026**
Mittenhuber, Dirk Dubins' problem is intrinsically three-dimensional. (English summary) **98m:49042**
Mizukami, Koichi *see* **Vasilieva, O.**, **98j:49031**
Nedić, Anđelija An optimal control problem on a half-line. (English summary) **98a:49034**
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Okoulevitch, A. I. *see* **Arutyunov, Aram V.**, **98j:49028**
Orlov, M. V. *see* **Kiselev, Yu. N.**, **98b:49019**
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Petrovskiĭ, S. A. *see* **Volkovskiĭ, A. R.**; **et al.**, (**98b:49003**)
de Pinho, M. do R. (*with* Vinter, Richard B.) Necessary conditions for optimal control problems involving nonlinear differential algebraic equations. (English summary) **98f:49023**
— On the weak maximum principle for optimal control problems with state dependent control constraints. (*see* **98i:00030**)
Pshenichnyĭ, B. N. (*with* Ochilov, S.) On the problem of the optimal passage through a given domain. (Russian. Russian summary) **98e:49051**

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Schroeder, W. R. *see* **Mayne, D. Q.**, **98i:49026**
Shima, Masasuke (*with* Yamashita, Yuh) Invariance condition of general nonlinear control system with integral type output. (*see* **98i:00030**)
Suslowska, Ewa The Weierstrass-type condition for a minimum in a Bolza optimal control problem. **98m:49043**
Tan, Hualin (*with* Rugh, Wilson J.) On overtaking optimal tracking for linear systems. (English summary) **98k:49032**
Tarakanov, A. F. Dynamic multicriterial control problems under uncertainty conditions. (Russian. Russian summary) (*see* **98h:93006**)
Vasilieva, O. (*with* Mizukami, Koichi) Optimality criterion for singular controllers: linear boundary conditions. (English summary) **98j:49031**
Vinter, Richard B. *see* **de Pinho, M. do R.**, **98f:49023**
Volkovskiĭ, A. R. (*with* Osipov, G. V.; Petrovskiĭ, S. A.) On the optimization with respect to speed of a search phase synchronization system. (Russian. Russian summary) (*see* **98b:49003**)
Wu, Zhen (*with* Xu, Wen Sheng) A class of optimal control problems with variable state endpoints. II. (Chinese. English and Chinese summaries) **98k:49033**
Xu, Wen Sheng A maximum principle for optimal control for a class of controlled systems. (English summary) **98g:49017**
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Zalmai, G. J. Optimality conditions and duality models for a class of nonsmooth constrained fractional optimal control problems. (English summary) **98e:49052**
Zaslavski, Alexander J. (*with* Leizarowitz, Arie) Optimal solutions of linear control systems with nonperiodic convex integrands. (English summary) **98g:49018**
Zhu, Jing Hao Boundary optimal control of dynamical systems. (Chinese. English and Chinese summaries)

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Afanas'ev, A. P. A first-order local variational problem for nonlinear optimal control problems with mixed constraints. (Russian. Russian summary) **98a:49007**
Agarwal, Ravi P. *see* **Liu, Yi[1]**; **et al.**
Artstein, Zvi (*with* Gaitsgori, V. G.) Linear-quadratic tracking of coupled slow and fast targets. (English summary) **98h:49038**
Avvakumov, S. N. (*with* Kiselev, Yu. N.; Orlov, M. V.) Methods for solving optimal control problems, based on Pontryagin's maximum principle. (Russian) **98a:49049**
Boguslavskaya, E. V. Exact solution of a problem of the optimal control of investments in a diffusion model. (Russian)
Boltyanskii, Vladimir Grigor'evich (*with* Marti Vazques, J.) On Bellman spheres for linear controlled objects of second order. (English summary) **98j:49002**
Breitner, M. H. *see* **Koslik, B.**
Bulychev, Yu. G. (*with* Burlaĭ, I. V.) Synthesis of an optimal control algorithm in the class of functions with compactly supported spectrum on a nonuniform interpolation grid. (Russian. Russian summary) **98d:49046**
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Cardaliaguet, Pierre Nonsmooth semipermeable barriers, Isaacs' equation, and application to a differential game with one target and two players. (English summary) **98f:90082**
Chanane, Bilal Optimal control of nonlinear systems: a recursive approach. (English summary)
Chernousko, F. L. (*with* Shmatkov, A. M.) Time-optimality synthesis in a third-order system. (Russian)
Chikrii, Arkadii A. ★ Conflict-controlled processes. (English summary) **98g:90050**
(Chikrii, G. Ts.) *see* **Chikrii, Arkadii A.**, **98g:90050**
Churkin, E. B. *see* **Orlov, M. V.**
Clarke, Francis H. (*with* Ledyaev, Yu. S.; Vinter, Richard B.) Regularity properties of solutions to linear quadratic optimal control problems with state constraints. (English summary) **98d:49047**
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Emel'yanov, D. D. On a problem of the trajectory control of observations. (Russian. Russian summary)
Gabasov, R. (*with* Kostyukova, O. I.) Synthesis of optimal feedback for systems with internal constraints on the control. I. Optimal feedback and defining equations for an optimal controller. (Russian. Russian summary) **98e:49089**
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Koslik, B. (*with* Breitner, M. H.) In optimal control problem in economics with four linear controls. (English summary)
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Leizarowitz, Arie Convergence of solutions to equations arising in neural networks. (English summary) **98i:34091**
Liu, Yi[1] (*with* Teo, Kok Lay; Agarwal, Ravi P.) A general approach to nonlinear multiple control problems with perturbation consideration. (English summary)
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Malanowski, Kazimierz Convergence of Lagrange-Newton method for control-state and pure state constrained optimal control problems. (English summary) **98f:49037**
— (*with* Büskens, Christof; Mäurer, Helmut[2]) Convergence of approximations to nonlinear optimal control problems. (English summary) **98f:49033**
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Morina, S. I. On the extension of control problems with a resource constraint. (Russian) (*see* **98b:00019**)
Nikolskii, Mikhail S. (*with* Stepanosov, K. V.) On an identification problem. (Russian)
Orlov, M. V. (*with* Churkin, E. B.) Numerical solution of the synthesis problem for the time-optimality problem with a control that is linear with respect to input. The program package SINTEZ-2.0. (Russian. Russian summary)
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Penev, Borislav A proof of a property of a class of time-optimality problems. (Russian. Russian summary)
Pukhlikov, A. V. Degenerations of Hamiltonian structures in optimal control problems. (Russian. Russian summary) **98c:49006**
Redfern, D. A. (*with* Goh, C. J.) Feedback control of state constrained optimal control problems. (English summary) (*see* **98d:90014**)
Roxin, Emilio O. The index for control systems. (*see* **98e:34002**)
Seater, John J. An optimal control solution to the liquidity constraint problem. (English summary) **98b:90034**
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Shubladze, A. M. Sufficient conditions for the extremum in systems with a maximum degree of stability. II. (Russian. Russian summary) **98k:93079**
Sklyar, G. M. (*with* Ignatovich, S. Yu.) A classification of linear time-optimal control problems in a neighborhood of the origin. (English summary) **98d:49002**
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Terletskiĭ, V. A. *see* **Vasil'ev, O. V.[1]**, **98b:49026**
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Vasil'ev, O. V.[1] (*with* Terletskiĭ, V. A.) Optimal control of a boundary value problem. (Russian) **98b:49026**
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Vujičić, Veljko A. Optimal control of rheonomic mechanical system. (English and Serbian summaries)
Walczak, Stanisław Hamiltonian systems with controls. (*see* **98i:00030**)
Yakubovich, Vladimir A. *see* **Matveev, A. S.**, **98a:49054**
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49K20 Problems involving partial differential equations

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Arguchintsev, A. V. (*with* Vasil'ev, O. V.[1]) Iterative processes of the maximum principle and their modifications in systems with distributed parameters. (Russian. Russian summary) **98b:49020**
Bardybakhin, A. I. Optimal local heating of a semi-infinite rod by a mobile point heat source. (Russian. Russian summary) **98d:49027**
Beibas, S. A. Optimal control of Goursat systems over varying domains. (English summary) (*see* **98b:00027**)
Bruch, J. C., Jr. *see* **Sadek, I. S.**; **et al.**, **98e:49057**
Bucci, Francesca A remark on regularization of the wave equation with boundary input. **98e:49054**
Casas Renteria, Eduardo Pontryagin's principle for state-constrained boundary control problems of semilinear parabolic equations. (English summary) **98e:49055**
Chen, Zhi Ming[1] (*with* Hoffmann, Karl-Heinz[1]) Optimal control of dynamical Ginzburg-Landau vortices in superconductivity. (English summary) **98e:49046**
Ding, Zhong Hai (*with* Zhou, Jianxin) Constrained LQR problems in elliptic distributed control systems with point observations—convergence results. (English summary) **98d:49028**
Gao, Hang Optimality conditions for a class of distributed parameter system. **98e:49047**
— A class of control problems with coefficients of degenerate elliptic equations as control variables. (Chinese. English and Chinese summaries) **98f:49024**
Gozzi, Fausto (*with* Tessitore, Maria Elisabetta) Sufficient conditions for Dirichlet boundary control problems of parabolic type. (English summary) **98e:49048**
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Henry, Jacques (*with* Yvon, J. P.) On the use of space invariant imbedding to solve optimal control problems for second-order elliptic equations. (English summary) **98g:49019**
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Mordukhovich, Boris S. (*with* Zhang, Kaixia) Minimax control of parabolic systems with Dirichlet boundary conditions and state constraints. (English summary) **98e:49056**
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Raitums, Uldis An example of non-existence of a cone approximation to the set of feasible states for an optimal control problem. (English summary) **98c:49049**
Raymond, Jean-Pierre (*with* Zidani, Housnaa) Optimal control problem governed by a semilinear parabolic equation. (English summary) **98h:49023**
— Nonlinear boundary control of semilinear parabolic problems with pointwise state constraints. (English summary) **98k:49035**
— *see also* **Alibert, J.-J.**, **98e:49053**
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Triggiani, Roberto The algebraic Riccati equation with unbounded control operator: the abstract hyperbolic case revisited. (English summary) **98i:49027**
Ushakov, A. M. An optimality system in the problem of the control of the shape of a plate over an obstacle. (Russian. English and Russian summaries) **98c:49050**
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— (*with* Slugin, S. N.) Necessary conditions of optimality in constrained planar domain optimization. (English summary) **98a:49063**
— (*with* Fujii, Nobuo) Symmetry and sufficient condition of optimality in a domain optimization problem. (English summary) **98i:49043**
Benamou, Jean-David (*with* Després, Bruno) A domain decomposition method for the Helmholtz equation and related optimal control problems. (English summary) **98c:65162**
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— (*with* Kunisch, Karl) Augmented Lagrangian techniques for elliptic state constrained optimal control problems. (English summary) **98d:49040**
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— (*with* Fei, Pu Sheng) Optimal control of nonsmooth system governed by quasi-linear elliptic equations. (English summary) **98e:49010**
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49K22 Problems involving integral equations

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49K24 Problems involving differential inclusions

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— (*with* Woodford, Patrick D.) On the occurrence of intermediate local minimizers that are not strong local minimizers. (English summary) **98j:49033**
— (*with* Zheng, Harry H.) Necessary conditions for optimal control problems with state constraints. (English summary) **98g:49020**
— *see also* **Silva, Geraldo Nunes**, **98a:49035**
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Liu, Xiao Hua (*with* Wang, Zhi Hua) Topological properties of the set of viable solutions to a differential inclusion. (Chinese. English and Chinese summaries) **98e:34026**
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49K25 Problems involving equations with retarded arguments [see also 34K35]

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Kokurin, M. Yu. On the regularization of problems of the optimal control of solutions of some ill-posed variational inequalities of monotone type. (Russian. Russian summary) **98e:49077**
Kolmanovskiĭ, V. B. (*with* Matasov, A. I.) An approximate method for solving the optimal control problem for systems with aftereffect. (Russian) **98k:49042**
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de la Sen, Manuel Linear control systems with time-lag: controllability and local parametrical identifiability with extensions in pre-Hilbert spaces. (English summary) **98j:93015**

49K27 Problems in abstract spaces [See 90C48, 93C25]

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Fattorini, H. O. Robustness and convergence of suboptimal controls in distributed parameter systems. (English summary) **98j:49035**
Flores-Bazán, Fabián On minima of the difference of functions. (English summary) **98d:49029**
Ginsburg, Boris (*with* Ioffe, Alexandre D.) The maximum principle in optimal control of systems governed by semilinear equations. (English summary) **98f:49026**
Iftode, V. Periodic solutions for a Riccati equation in Hilbert spaces. (English and Romanian summaries)
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Melnik, Roderick V. Nicholas On consistent regularities of control and value functions. (English summary) **98c:49054**
Naniewicz, Zdzisław Hemivariational inequalities as necessary conditions for optimality for a class of nonsmooth nonconvex functionals. (English summary) **98d:49030**
Raitums, Uldis On the projections of multivalued maps. (English summary) **98a:49037**
Raymond, Jean-Pierre Pontryagin's principle for state-constrained control problems and unbounded controls. (English summary) **98m:49045**
Seierstad, A. Nonsmooth control problems in Banach state space. (English summary) **98h:49026**
Serovaĭskiĭ, S. Ya. Extremal problems on differentiable submanifolds of a Banach space. (Russian) **98a:49038**
Terzıyan, Stepan A. A note on Palais-Smale condition and mountain-pass principle for locally Lipschitz functionals. (English summary) **98d:49031**
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Caligaris, O. (*with* Oliva, P.) Subdifferential of functionals in abstract spaces and necessary conditions in calculus of variations. (English summary) **98m:49035**
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Carbone, Antonio (*with* Singh, Sankatha Prasad) On Fan's best approximation and applications. (English summary) **98i:41049**
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Georgiev, Pando Gr. (*with* Zlateva, Nadia P.) Second-order subdifferentials of $C^{1,1}$ functions and optimality conditions. (English summary) **98i:49021**
Kimura, Yutaka (*with* Kuroiwa, Daishi; Tanaka, Kensuke) An equilibrium theorem for subdifferential. (English summary) **98h:49017**
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49K30 Optimal solutions belonging to restricted classes

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Spring, D. On the second derivative test for constrained local extrema. **98e:90171**
Sussmann, Héctor J. A cornucopia of four-dimensional abnormal sub-Riemannian minimizers. (English summary) **98a:58040**
Sychev, M. A. (*with* Mizel, Victor J.) A condition on the value function both necessary and sufficient for full regularity of minimizers of one-dimensional variational problems. (English summary) **98d:49048**
Vinter, Richard B. (*with* Woodford, Patrick D.) On the occurrence of intermediate local minimizers that are not strong local minimizers. (English summary) **98j:49033**
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49K35 Minimax problems

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González, Roberto L. V. *see* **Di Marco, Silvia C., (98d:90014)**
Guo, Wei Ping A local section theorem and minimax problems. (Chinese. English and Chinese summaries)
Gusev, S. V. Minimax control of a linear plant with discrete time under moment restrictions on the disturbances. (Russian)
Joó, Istvan *see* **Forgó, F., 98j:49037**
Xiang, Xiao Lin Minimax, maximin, and saddle point problems. (Chinese. English and Chinese summaries)
Zhang, Xian[1] Some intersection theorems and minimax inequalities. (English summary) **98d:49032**

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Di Pillo, G. (*with* Grippo, L.; Lucidi, S.) Smooth transformation of the generalized minimax problem. (English summary) **98i:90088**
Galiev, Sh. I. Determination of approximate solutions of minimax problems. (Russian. Russian summary) **98j:49010**
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Park, Sehie A generalized minimax inequality related to admissible multimaps and its applications. (English summary) **98j:47133**
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Stachurski, Andrzej On a feasible descent algorithm for solving min-max problems. (English summary) (*see* **98d:65007**)
Sun, Qing Ying *see* **Zhou, Guang Lu; et al.**
Sun, Wen-Yu On the convergence of an iterative method for the minimax problem. (English summary) **98j:90074**
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Zhukovskiĭ, V. I. *see* **Salukvadze, M. E., 98a:90089**

49K40 Sensitivity of optimal solutions in the presence of perturbations

Artstein, Zvi (*with* Gaĭtsgori, V. G.) Tracking fast trajectories along a slow dynamics: a singular perturbations approach. (English summary) **98h:49027**
Barbet, Luc Stability and differential sensitivity of optimal solutions of parametrized variational inequalities in infinite dimensions. (English summary) **98c:49055**
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Danilin, A. R. (*with* Il'in, A. M.) Asymptotic behavior of the solution of the time-optimality problem for a linear system under perturbation of initial data. (Russian) **98c:49056**
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— *see also* **Kalinin, A. I.**
Il'in, A. M. *see* **Danilin, A. R., 98c:49056**
Jian, Huai Yu Lipschitz estimates for Nash equilibria of variational integrals. (Chinese. English and Chinese summaries) **98d:49033**
Kalinin, A. I. (*with* Gribkovskaya, I. V.) Asymptotic optimization of linear dynamical systems containing parameters of different orders of smallness multiplying the derivatives. (Russian. English and Russian summaries)
— *see also* **Gribkovskaya, I. V., 98a:49040**
Kurina, G. A. (*with* Ovezov, Kh. A.) Asymptotic analysis of matrix-singularly perturbed linear-quadratic optimal control problems. (Russian) **98b:49022**
Kwun, Young Chel *see* **Ryu, Jong-Won; et al., 98a:49042**
Malanowski, Kazimierz Stability analysis of solutions to parametric optimal control problems. (English summary) **98a:49041**
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Morgan, Jacqueline (*with* Raucci, Roberto) Continuity properties of ε-solutions for generalized parametric saddle point problems and application to hierarchical games. **98k:49037**
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Mabizela, Sizwe Upper semicontinuity of parametric projections. (English summary) **98b:41028**
Mentagui, D. Caractérisation de la stabilité d'un problème de minimisation associé à une fonction de perturbation particulière. (English and French summaries) [Characterization of the stability of a minimization problem associated with a particular perturbation function] **98a:49055**

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Shapiro, Alexander A variational principle and its applications. (English summary) **98c:90154**
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Ye, Jane Juan-Juan Optimal strategies for bilevel dynamic problems. (English summary) **98a:49029**
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49K45 Problems involving randomness [see also 93E20]

Filar, Jerzy A. (*with* Haurie, A.) Optimal ergodic control of singularly perturbed hybrid stochastic systems. (English summary) **98e:49067**
Fritsch, Hagen A necessary extremality condition for a set-valued stochastic control problem. (English summary) **98f:49028**
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Korn, Ralf Optimal impulse control when control actions have random consequences. (English summary) **98g:49021**
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Di Masi, G. B. (*with* Stettner, Ł.) Bayesian ergodic adaptive control of diffusion processes. (English summary) **98c:93116**
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49K99 None of the above, but in this section

Dymkov, M. P. Necessary conditions for optimality in convex problems of the control of discrete 2-D systems with constraints. (Russian. Russian summary) **98j:49038**

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El Boukhari, Abderrahman Détermination explicite du cône contingent; application à l'optimisation. (English and French summaries) [Explicit determination of a contingent cone; application to optimization] **98i:49020**
Gusev, E. L. On a priori restriction of an admissible set of materials in problems of the optimal design of nonhomogeneous structures from a discrete set of materials under wave actions. (Russian) **98k:73052**
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49Lxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming

49L05 Free problems and problems involving ordinary differential equations

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Camilli, Fabio Approximation of integro-differential equations associated with piecewise deterministic process. (English summary) **98m:49047**
El-Alaoui, El-H. Ch. (*with* Gauthier, J. P.; Kupka, Ivan A. K.) Small sub-Riemannian balls on $\mathbf{R}^3$. (English summary) **98a:53043b**
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Kovalevskiĭ, V. B. (*with* Kozlov, S. M.) On the solution of the problem of analytic construction of optimal controllers. (Russian. Russian summary) **98k:49006**
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49L10 Free problems and problems involving partial differential equations

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Wang, Shihong Averaging of Hamilton-Jacobi equations in infinite dimensions and its applications. (Chinese)

49L20 Dynamic programming method

Bătătorescu, Anton Computational procedures for a class of bottleneck problems. (English summary) **98c:49059**
Belbas, S. A. Non-classical dynamic programming in optimal control. (*see* **98c:00012**)
— Forward dynamic programming for the numerical solution of parabolic control problems. (English summary) (*see* **98b:00027**)
Camilli, Fabio Approximation of integro-differential equations associated with piecewise deterministic process. (English summary) **98m:49047**
Cannarsa, Piermarco (*with* Tessitore, Maria Elisabetta) Dynamic programming equation for a class of nonlinear boundary control problems of parabolic type. (English summary) **98c:49060**
— (*with* Sinestrari, Carlo) An infinite-dimensional time optimal control problem. (English summary) **98k:49039**
Corrias, Lucilla Fast Legendre-Fenchel transform and applications to Hamilton-Jacobi equations and conservation laws. (English summary) **98a:49044**
Dikusar, V. V. Methods for the synthesis of optimal systems with feedback. (Russian. Russian summary) **98c:49061**
Ferretti, Roberto Dynamic programming techniques in the approximation of optimal stopping time problems in Hilbert spaces. **98e:49069**
Górniewicz, Lech (*with* Nistri, Paolo) An invariance problem for control systems with deterministic uncertainty. (English summary) **98c:49062**
Le Cadre, J. P. (*with* Trémois, O.) The matrix dynamic programming property and its implications. (English summary) **98j:49039**
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Liao, Aiping Some efficient algorithms for unconstrained discrete-time optimal control problems. (English summary) **98i:49031**
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Yushkevich, Aleksandr A. The compactness of a policy space in dynamic programming via an extension theorem for Carathéodory functions. (English summary) **98h:49030**
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Barron, E. N. (*with* Jensen, Robert R.; Liu, Wenxiong) Hopf-Lax type formula for $u_t + H(u, Du) = 0$. II. (English summary) **98g:35038**
— (*with* Jensen, Robert R.; Liu, Wenxiong) Explicit solution of some first-order PDE's. (English summary) **98c:35027**
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Charalambous, Charalambos D. Partially observable nonlinear risk-sensitive control problems: dynamic programming and verification theorems. (English summary) **98i:93076**
— The role of information state and adjoint in relating nonlinear output feedback risk-sensitive control and dynamic games. (English summary) **98i:93077**
Chiarolla, Maria B. Singular stochastic control of a singular diffusion process. (English summary) **98i:93088**
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Fleming, Wendell (*with* Hernández-Hernández, Daniel) Risk-sensitive control of finite state machines on an infinite horizon. I. (English summary) **98k:93119**
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Krylov, Nicolai V. On the rate of convergence of finite-difference approximations for Bellman's equations. (English summary) **98h:49033**
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Yung, Siu Pang Multiprocess optimal control problem on Hilbert space and related Hamilton-Jacobi equation. **98e:49063**
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Zhao, Huai Zhong *see* **Truman, A., 98b:35230**

49L25 Viscosity solutions

Arisawa, Mariko Ergodic problem for the Hamilton-Jacobi-Bellman equation. I. Existence of the ergodic attractor. (English and French summaries) **98k:49040**
— (*with* Ishii, Hitoshi; Lions, Pierre-Louis) Un contre-exemple pour la théorie du contrôle ergodique en dimension infinie. (English and French summaries) [A counterexample for ergodic control theory in infinite dimensions] **98d:49036**
Bagagiolo, F. (*with* Bardi, Martino; Capuzzo Dolcetta, I.) A viscosity solutions approach to some asymptotic problems in optimal control. (English summary) **98d:49037**
Bardi, Martino Some applications of viscosity solutions to optimal control and differential games. **98f:49029**
— (*with* Da Lio, Francesca) On the Bellman equation for some unbounded control problems. (English summary) **98m:49048**
— *see also* **Bagagiolo, F.; et al., 98d:49037**
Blanc, Alain-Philippe Deterministic exit time control problems with discontinuous exit costs. (English summary) **98a:49045**
Capuzzo Dolcetta, I. *see* **Bagagiolo, F.; et al., 98d:49037**
Da Lio, Francesca *see* **Bardi, Martino, 98m:49048**
Gozzi, Fausto (*with* Rouy, Elisabeth) Regular solutions of second-order stationary Hamilton-Jacobi equations. (English summary) **98f:49030**
Grigorjeva, Svetlana V. (*with* Tarasʹev, A. M.; Ushakov, Vladimir N.; Uspenskiĭ, A. A.) Constructions of nonsmooth analysis in numerical methods for solving Hamilton-Jacobi equations. **98a:49046**
Ishii, Hitoshi *see* **Arisawa, Mariko; et al., 98d:49036**
Lions, Pierre-Louis *see* **Arisawa, Mariko; et al., 98d:49036**
Newcomb, Richard T., II (*with* Su, Jianzhong) Some results on the viscosity solutions of Hamilton-Jacobi equations. (English summary) **98a:49047**
Nosovskiĭ, G. V. Nonlinear potentials for Hamilton-Jacobi-Bellman equations. II. (English summary) **98a:49048**
Rouy, Elisabeth *see* **Gozzi, Fausto, 98f:49030**
Shih, Tsi Min *see* **Yi, Fa Huai; et al., 98h:49031**
Silin, D. B. Viscosity solutions via unbounded set-valued integration. **98k:49041**
Soner, Halil Mete Controlled Markov processes, viscosity solutions and applications to mathematical finance. **98i:49032**
Su, Jianzhong *see* **Newcomb, Richard T., II, 98a:49047**
Tarasʹev, A. M. *see* **Grigorjeva, Svetlana V.; et al., 98a:49046**
Ushakov, Vladimir N. *see* **Grigorjeva, Svetlana V.; et al., 98a:49046**
Uspenskiĭ, A. A. *see* **Grigorjeva, Svetlana V.; et al., 98a:49046**
Yi, Fa Huai (*with* Shih, Tsi Min; Yong, Jiong Min) Optimal control for the boundary flux to the continuous casting problem. (English summary) **98h:49031**
Yong, Jiong Min *see* **Yi, Fa Huai; et al., 98h:49031**

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Alvarez, Olivier (*with* Lasry, J. M.; Lions, Pierre-Louis) Convex viscosity solutions and state constraints. (English and French summaries) **98k:35045**
Arisawa, Mariko (*with* Tourin, Agnes) Regularizing effects for a class of Hamilton-Jacobi equations. (English summary) (*see* **98f:35003**)
Bardi, Martino (*with* Crandall, Michael G.; Evans, Lawrence C.; Soner, Halil Mete; Souganidis, Panagiotis E.) ★ Viscosity solutions and applications. **98b:35005**
Barles, Guy (*with* Blanc, Alain-Philippe) Large deviations estimates for the exit probabilities of a diffusion process through some vanishing parts of the boundary. **98d:60055**
Basak, Gopal K. (*with* Bisi, Arnab; Ghosh, Mrinal K.) Controlled random degenerate diffusions under long-run average cost. (English summary) **98i:93086**
Baxter, Martin W. General interest-rate models and the universality of HJM. (*see* **98k:90014**)
Bisi, Arnab *see* **Basak, Gopal K.; et al., 98i:93086**
Blanc, Alain-Philippe *see* **Barles, Guy, 98d:60055**
Brace, Alan (*with* Musiela, Marek) Swap derivatives in a Gaussian HJM framework. (English summary) (*see* **98k:90014**)
Buckdahn, Rainer (*with* Quincampoix, Marc; Rascanu, Aurel) Propriété de viabilité pour des équations différentielles stochastiques rétrogrades et applications à des équations aux dérivées partielles. (English and French summaries) [Viability for backward stochastic differential equations, applications to PDE's] **98g:60104**
Cannarsa, Piermarco (*with* Sinestrari, Carlo) An infinite-dimensional time optimal control problem. (English summary) **98k:49039**
(Capuzzo Dolcetta, I.) *see* **Bardi, Martino; et al., 98b:35005**
Chiarolla, Maria B. Singular stochastic control of a singular diffusion process. (English summary) **98i:93088**
Clarke, Francis H. (*with* Ledyaev, Yu. S.; Subbotin, Andreĭ Izmaĭlovich) The synthesis of universal feedback pursuit strategies in differential games. (English summary) **98e:90244**
Crandall, Michael G. Viscosity solutions: a primer. **98g:35034**
— *see also* **Bardi, Martino; et al., 98b:35005**
Dacorogna, Bernard (*with* Marcellini, Paolo) General existence theorems for Hamilton-Jacobi equations in the scalar and vectorial cases. **98d:35029**
Dupuis, Paul (*with* McEneaney, William M.) Risk-sensitive and robust escape criteria. (English summary) **98k:93118**
Evans, Lawrence C. *see* **Bardi, Martino; et al., 98b:35005**
Ghosh, Mrinal K. *see* **Basak, Gopal K.; et al., 98i:93086**

Grüne, Lars An adaptive grid scheme for the discrete Hamilton-Jacobi-Bellman equation. (English summary) **98b:65136**
Helton, J. William (*with* Zhan, Wei) Piecewise Riccati equations and the bounded real lemma. (English summary) **98e:93036**
Hong, Yi Guang (*with* Yung, Siu Pang; Mei, Sheng Wei; Qin, Hua Shu) Viscosity solution to nonlinear H_∞ control. **98h:93010**
Huan, Zhongdan On steady boundaries under the scheme of viscosity solutions. **98g:35024**
Iftode, V. Periodic solutions for a Riccati equation in Hilbert spaces. (English and Romanian summaries)
Ishii, Hitoshi Comparison results for Hamilton-Jacobi equations without growth condition on solutions from above. (English summary) **98m:35023**
— Viscosity solutions and their applications [translation of Sūgaku **47** (1995), no. 2, 97–110; MR 96k:35023]. (*see* **98j:00014**)
Kocan, Maciej (*with* Soravia, Pierpaolo; Święch, Andrzej) On differential games for infinite-dimensional systems with nonlinear, unbounded operators. (English summary) **98j:90110**
Koike, Shigeaki Semicontinuous solutions of Hamilton-Jacobi equations with degeneracy. (*see* **98f:00031**)
Lasry, J. M. *see* **Alvarez, Olivier; et al., 98k:35045**
Ledyaev, Yu. S. *see* **Clarke, Francis H.; et al., 98e:90244**
Li, Xun Jing *see* **Zhou, Xun Yu; et al., 98a:93081**
Lions, Pierre-Louis *see* **Alvarez, Olivier; et al., 98k:35045** *and* **Bardi, Martino; et al., 98b:35005**
Marcellini, Paolo *see* **Dacorogna, Bernard, 98d:35029**
McEneaney, William M. *see* **Dupuis, Paul, 98k:93118**
Mei, Sheng Wei *see* **Hong, Yi Guang; et al., 98h:93010**
Mercaldo, A. A remark on comparison results for first-order Hamilton-Jacobi equations. **98e:35032**
Mikulevičius, Remigius (*with* Pragarauskas, H.) Nonlinear potentials of the Cauchy-Dirichlet problem for the Bellman integro-differential equation. (Russian. Lithuanian summary) **98a:35134**
Musiela, Marek *see* **Brace, Alan, (98k:90014)**
Nguyen Dac Liem *see* **Nguyen Duy Thai Son; et al., 98j:35028**
Nguyen Duy Thai Son (*with* Nguyen Dac Liem; Trần Đứ'c Vân) Minimax solutions for monotone systems of first-order nonlinear partial differential equations with time-measurable Hamiltonians. **98j:35028**
Nguyen Hoang *see* **Trần Đứ'c Vân; et al., 98d:35028**
Pragarauskas, H. *see* **Mikulevičius, Remigius, 98a:35134**
Qin, Hua Shu *see* **Hong, Yi Guang; et al., 98h:93010**
Quincampoix, Marc *see* **Buckdahn, Rainer; et al., 98g:60104**
Rascanu, Aurel *see* **Buckdahn, Rainer; et al., 98g:60104**
Silin, D. B. Generalizing Hopf and Lax-Oleĭnik formulae via conjugate integral. (English summary) **98k:35019**
Sinestrari, Carlo *see* **Cannarsa, Piermarco, 98k:49039**
Soner, Halil Mete *see* **Bardi, Martino; et al., 98b:35005**
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Święch, Andrzej *see* **Kocan, Maciej; et al., 98j:90110**
Tidball, Mabel M. Rate of convergence of a numerical procedure for impulsive control problems. (English summary) (*see* **98d:65007**)
Tourin, Agnes *see* **Arisawa, Mariko, (98f:35003)**
Trần Đứ'c Vân (*with* Nguyen Hoang; Tsuji, Mikio) On Hopf's formula for Lipschitz solutions of the Cauchy problem for Hamilton-Jacobi equations. **98d:35028**
— *see also* **Nguyen Duy Thai Son; et al., 98j:35028**
Tsuji, Mikio *see* **Trần Đứ'c Vân; et al., 98d:35028**
Wang, Hui[1] Approximation of the value function of an optimal control problem with finite horizon. (Chinese. Chinese summary) **98a:49052**
Yong, Jiong Min *see* **Zhou, Xun Yu; et al., 98a:93081**
Yung, Siu Pang Multiprocess optimal control problem on Hilbert space and related Hamilton-Jacobi equation. **98e:49063**
— *see also* **Hong, Yi Guang; et al., 98h:93010**
Zhan, Wei *see* **Helton, J. William, 98e:93036**
Zhang, Ke Wei[1] Instability of the Dirichlet problem for Hamilton-Jacobi equation. (English summary) **98d:35022**
Zhou, Xun Yu (*with* Yong, Jiong Min; Li, Xun Jing) Stochastic verification theorems within the framework of viscosity solutions. (English summary) **98a:93081**

49L99 None of the above, but in this section

Items with secondary classifications in 49L99

Kurzhanskiĭ, A. B. (*with* Vályi, István) ★ Ellipsoidal calculus for estimation and control. (English summary) **98b:93003**
Litvinov, G. L. (*with* Maslov, V. P.) Idempotent mathematics: the correspondence principle and its computer realizations. (Russian) **98b:46098**
Magni, L. (*with* Sepulchre, Rodolphe) Stability margins of nonlinear receding-horizon control via inverse optimality. (English summary) **98k:93078**
Maslov, V. P. *see* **Litvinov, G. L., 98b:46098**
Sepulchre, Rodolphe *see* **Magni, L., 98k:93078**
Vályi, István *see* **Kurzhanskiĭ, A. B., 98b:93003**

49Mxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx.}

Kumar, Renjith R. *see* **Seywald, Hans, 98e:49070**
Seywald, Hans (*with* Kumar, Renjith R.) Some recent developments in computational optimal control. (English summary) **98e:49070**

Items with secondary classifications in 49Mxx

Pang, Jong-Shi Error bounds in mathematical programming. (English summary) **98j:90075**

49M05 Methods based on necessary conditions

Avvakumov, S. N. (*with* Kiselev, Yu. N.; Orlov, M. V.) Methods for solving optimal control problems, based on Pontryagin's maximum principle. (Russian) **98a:49049**
Churkin, E. B. *see* **Orlov, M. V.**
Fei, Pu Sheng *see* **Gong, Liu Tang, 98j:49040**
Gong, Liu Tang (*with* Fei, Pu Sheng) Penalty function methods for parabolic control problems with state constraints. (Chinese. English and Chinese summaries) **98j:49040**
Grimm, Werner (*with* Markl, A.) Adjoint estimation from a direct multiple shooting method. (English summary) **98e:49071**
Hou, LiSheng (*with* Ravindran, S. S.; Yan, Yin) Numerical solution of optimal distributed control problems for incompressible flows. (English summary) **98e:49072**
Kiselev, Yu. N. *see* **Avvakumov, S. N.; et al., 98a:49049**
Kolmanovskiĭ, V. B. (*with* Matasov, A. I.) An approximate method for solving the optimal control problem for systems with aftereffect. (Russian) **98k:49042**
Kunisch, Karl (*with* Tai, Xue Cheng) Sequential and parallel splitting methods for bilinear control problems in Hilbert spaces. (English summary) **98b:49025**
Lu, Ping Non-linear systems with control and state constraints. (English summary)
Markl, A. *see* **Grimm, Werner, 98e:49071**
Matasov, A. I. *see* **Kolmanovskiĭ, V. B., 98k:49042**
Orlov, M. V. (*with* Churkin, E. B.) Numerical solution of the synthesis problem for the time-optimality problem with a control that is linear with respect to input. The program package SINTEZ-2.0. (Russian. Russian summary)
— *see also* **Avvakumov, S. N.; et al., 98a:49049**
Pedregal, Pablo On the numerical analysis of non-convex variational problems. (English summary) (*see* **98b:65005**)
Ravindran, S. S. *see* **Hou, LiSheng; et al., 98e:49072**
Strekalovskiĭ, A. S. (*with* Vasiliev, Igor) On global search for non-convex optimal control problems. (English summary) (*see* **98e:90005**)
Tai, Xue Cheng *see* **Kunisch, Karl, 98b:49025**
Teo, Kok Lay *see* **Yang, Xiao Qi, 98c:49064**
Terletskiĭ, V. A. *see* **Vasil'ev, O. V.**[1], **98b:49026**
Ulemj, I. Linearizational method based on X-variation of a control in optimal control problem with terminal constraints. (English summary) **98c:49063**
Vasil'ev, O. V.[1] (*with* Terletskiĭ, V. A.) Optimal control of a boundary value problem. (Russian) **98b:49026**
Vasiliev, Igor *see* **Strekalovskiĭ, A. S., (98e:90005)**
Yan, Yin *see* **Hou, LiSheng; et al., 98e:49072**
Yang, Xiao Qi (*with* Teo, Kok Lay) A root catching method for a minimax convex composite optimal control problem. (English summary) **98c:49064**

Items with secondary classifications in 49M05

Arguchintsev, A. V. (*with* Vasil'ev, O. V.[1]) Iterative processes of the maximum principle and their modifications in systems with distributed parameters. (Russian. Russian summary) **98b:49020**
Aseev, S. M. The method of smooth approximations in the theory of necessary conditions of optimality for differential inclusions. (Russian. Russian summary) **98j:49032**
Belbas, S. A. Optimal control of Goursat systems over varying domains. (English summary) (*see* **98b:00027**)
Bulychev, Yu. G. (*with* Burlaĭ, I. V.) Synthesis of an optimal control algorithm in the class of functions with compactly supported spectrum on a nonuniform interpolation grid. (Russian. Russian summary) **98d:49046**
Burlaĭ, I. V. *see* **Bulychev, Yu. G., 98d:49046**
Chow, Gregory C. *see* **Kwan, Yum K., 98k:93123**
Gribkovskaya, I. V. *see* **Kalinin, A. I.**
Hamel, Andreas Suboptimal solutions of control problems for distributed parameter systems. (English summary) **98e:49011**
Ito, Satoshi Inexact implementation of interior point algorithms for optimal control problems. (*see* **98c:65005**)
Kalinin, A. I. (*with* Gribkovskaya, I. V.) Asymptotic optimization of linear dynamical systems containing parameters of different orders of smallness multiplying the derivatives. (Russian. English and Russian summaries)
Kwan, Yum K. (*with* Chow, Gregory C.) Chow's method of optimal control: a numerical solution. **98k:93123**
Lee, Hyung-Chun Analysis and computations of optimal and feedback control problems for Navier-Stokes equations. (English summary) **98m:49044**
Liao, Aiping Some efficient algorithms for unconstrained discrete-time optimal control problems. (English summary) **98i:49031**
Mesbahi, Mehran (*with* Papavassilopoulos, George P.) Least elements and the minimal rank matrices. (English summary) **98b:90151**
Mizukami, Koichi *see* **Vasilieva, O., 98j:49031**
Papavassilopoulos, George P. *see* **Mesbahi, Mehran, 98b:90151**
Reiter, Michael Chow's method of optimal control. (English summary) **98k:93122**
Rotea, Mario A. *see* **Zhu, Guoming G.; et al., 98b:49024**
Skelton, Robert E. *see* **Zhu, Guoming G.; et al., 98b:49024**
Teo, Kok Lay (*with* Yang, Xiao Qi) A root finding approach for continuous minimax optimal control problems. (English summary) **98c:49018**
Vasil'ev, O. V.[1] *see* **Arguchintsev, A. V., 98b:49020**
Vasilieva, O. (*with* Mizukami, Koichi) Optimality criterion for singular controllers: linear boundary conditions. (English summary) **98j:49031**
Yang, Xiao Qi *see* **Teo, Kok Lay, 98c:49018**
Zhu, Guoming G. (*with* Rotea, Mario A.; Skelton, Robert E.) A convergent algorithm for the output covariance constraint control problem. (English summary) **98b:49024**

49M07 Gradient methods

Bertsekas, Dimitri P. A new class of incremental gradient methods for least squares problems. (English summary) **98k:49043**

Evtushenko, Yu. G. (*with* Zasukhina, E. S.; Zubov, V. I.) On a numerical approach to the optimization of the solution of the Burgers problem by means of boundary conditions. (Russian. Russian summary) **98k:49044**

Ismailov, I. G. (*with* Kutuzov, A. A.) Gradient procedures for integral functionals. (Russian. Russian summary) **98a:49050**

Jennings, L. S. (*with* Teo, Kok Lay; Rehbock, V.; Zheng, Wei Xin) Optimal control of singular systems with a cost on changing control. (English summary) **98c:49065**

Kutuzov, A. A. *see* **Ismailov, I. G., 98a:49050**

Mamonova, N. V. *see* **Srochko, V. A., 98a:49051**

Rehbock, V. *see* **Jennings, L. S.; et al., 98c:49065**

Srochko, V. A. (*with* Mamonova, N. V.) A quasigradient method for solving optimal control problems. (Russian) **98a:49051**

Teo, Kok Lay *see* **Jennings, L. S.; et al., 98c:49065**

Zasukhina, E. S. *see* **Evtushenko, Yu. G.; et al., 98k:49044**

Zheng, Wei Xin *see* **Jennings, L. S.; et al., 98c:49065**

Zubov, V. I. *see* **Evtushenko, Yu. G.; et al., 98k:49044**

Items with secondary classifications in 49M07

Antipin, A. S. On differential gradient methods of predictive type for computing fixed points of extremal mappings. (Russian. Russian summary) **98a:49013**

Bobylev, N. A. (*with* Korovin, S. K.; Kutuzov, A. A.) Gradient methods in infinite-dimensional problems. (Russian. Russian summary) **98a:90131**

— (*with* Ismailov, I. G.; Korovin, S. K.) Gradient procedures in problems with nonisolated extremals. (Russian) **98m:49014**

Chen, Hua Fu *see* **He, Guang Zong**

Ding, Zhong Hai (*with* Zhou, Jianxin) Constrained LQR problems in elliptic distributed control systems with point observations—convergence results. (English summary) **98d:49028**

He, Guang Zong (*with* Chen, Hua Fu) A gradient projection method for linear programming. (Chinese. English and Chinese summaries)

— (*with* Chen, Hua Fu) A general gradient projection method with an arbitrary initial point. (Chinese. English and Chinese summaries)

Ismailov, I. G. *see* **Bobylev, N. A.; et al., 98m:49014**

Iusem, Alfredo Noel (*with* Svaiter, B. F.) A variant of Korpelevich's method for variational inequalities with a new search strategy. (English summary) **98m:49020**

Kaufman, Linda (*with* Neumaier, Arnold) Regularization of ill-posed problems by envelope guided conjugate gradients. (English summary) **98m:65106**

Korovin, S. K. *see* **Bobylev, N. A.; et al., 98a:90131** *and* **98m:49014**

Kutuzov, A. A. *see* **Bobylev, N. A.; et al., 98a:90131**

Lemaire, Bernard Which fixed point does the iteration method select? (English summary) **98g:90040**

Neumaier, Arnold *see* **Kaufman, Linda, 98m:65106**

Pieters, Stefan *see* **Varga, András**

Svaiter, B. F. *see* **Iusem, Alfredo Noel, 98m:49020**

Varga, András (*with* Pieters, Stefan) Gradient-based approach to solve optimal periodic output feedback control problems. (English summary)

You, Puhong (*with* Zhou, Jianxin) Constrained LQR problems in elliptic distributed control systems with point observations—on convergence rates. (English summary) **98i:49038**

Zhou, Jianxin *see* **Ding, Zhong Hai, 98d:49028** *and* **You, Puhong, 98i:49038**

49M10 Methods of steepest descent type

Items with secondary classifications in 49M10

Karátson, J. The gradient method for a class of nonlinear operators in Hilbert space and applications to quasilinear differential equations. (English summary) **98g:47052**

49M15 Methods of Newton-Raphson, Galerkin and Ritz types

Dębińska-Nagórska, Anna (*with* Just, Andrzej; Stempień, Zdzisław) Analysis and semidiscrete Galerkin approximation of a class of nonlinear parabolic optimal control problems. (English summary) **98m:49049**

Jiang, D. C. (*with* Teo, Kok Lay; Yan, Wei Yong) A new computational method for the functional inequality constrained minimax optimization problem. (English summary) **98c:49066**

Just, Andrzej *see* **Dębińska-Nagórska, Anna; et al., 98m:49049**

Kunisch, Karl (*with* Volkwein, S.) Augmented Lagrangian-SQP techniques and their approximations. (English summary) **98h:49032**

Stempień, Zdzisław *see* **Dębińska-Nagórska, Anna; et al., 98m:49049**

Teo, Kok Lay *see* **Jiang, D. C.; et al., 98c:49066**

Volkwein, S. *see* **Kunisch, Karl, 98h:49032**

Yan, Wei Yong *see* **Jiang, D. C.; et al., 98c:49066**

Items with secondary classifications in 49M15

Dębińska-Nagórska, Anna (*with* Just, Andrzej; Stempień, Zdzisław) A non-linear parabolic control problem with non-homogeneous boundary condition—convergence of Galerkin approximation. (English summary) **98h:49004**

Dirkse, Steven P. (*with* Ferris, Michael C.) Crash techniques for large-scale complementarity problems. (English summary) **98c:90158**

Dontchev, Asen L. Local analysis of a Newton-type method based on partial linearization. (English summary) **98a:65079**

Ferris, Michael C. *see* **Dirkse, Steven P., 98c:90158**

Just, Andrzej *see* **Dębińska-Nagórska, Anna; et al., 98h:49004**

Konnov, Igor V. On systems of variational inequalities. (Russian) **98m:49021**

Rautert, T. (*with* Sachs, Ekkehard W.) Computational design of optimal output feedback controllers. (English summary) **98j:93046**

Sachs, Ekkehard W. *see* **Rautert, T., 98j:93046**

Stempień, Zdzisław *see* **Dębińska-Nagórska, Anna; et al., 98h:49004**

49M20 Methods of relaxation type

Items with secondary classifications in 49M20

Chernov, D. È. Generalized dynamic programming. Two new applications. (Russian. Russian summary)

Cohen, Nir *see* **Kotzer, Tuvia; et al., 98c:65100**

Konnov, Igor V. Application of a linearization-type method in the solution of nonsmooth equilibrium problems. (Russian) **98f:90044**

Kotzer, Tuvia (*with* Cohen, Nir; Shamir, Joseph) A projection-based algorithm for consistent and inconsistent constraints. (English summary) **98c:65100**

Schott, D. About strongly Fejér monotone mappings and their relaxations. (English summary) **98j:47160**

Shamir, Joseph *see* **Kotzer, Tuvia; et al., 98c:65100**

49M25 Finite difference methods

Alt, Walter Discretization and mesh-independence of Newton's method for generalized equations. (English summary) **98j:49041**

Bochev, Pavel B. Least-squares methods for optimal control. (*see* **98i:00029**)

Büskens, Christof *see* **Malanowski, Kazimierz; et al., 98f:49033**

Cliff, E. M. (*with* Heinkenschloss, Matthias; Shenoy, A. R.) An optimal control problem for flows with discontinuities. (English summary) **98f:49031**

Elnagar, Gamal N. (*with* Razzaghi, Mohsen) A collocation-type method for linear quadratic optimal control problems. (English summary) **98d:49038**

Felgenhauer, Ursula Numerical optimality test for control problems. (English summary) **98c:49067**

Ferretti, Roberto Convergence of semidiscrete approximations to optimal control problems in Hilbert spaces: a counterexample. (English summary) **98i:49033**

Heinkenschloss, Matthias The numerical solution of a control problem governed by a phase field model. (English summary) **98f:49032**

— *see also* **Cliff, E. M.; et al., 98f:49031**

Krylov, Nicolai V. On the rate of convergence of finite-difference approximations for Bellman's equations. (English summary) **98h:49033**

Lepp, Riho Discrete approximation of nonlinear control problems. (English summary) **98e:49073**

Lubyshev, F. V. Approximation and regularization of optimal control problems for parabolic equations with controls in the coefficients. (Russian) **98e:49074**

Malanowski, Kazimierz (*with* Büskens, Christof; Mäurer, Helmut[2]) Convergence of approximations to nonlinear optimal control problems. (English summary) **98f:49033**

Mäurer, Helmut[2] *see* **Malanowski, Kazimierz; et al., 98f:49033**

Potapov, M. M. On the strong convergence of difference approximations of problems of boundary control and observation for the wave equation. (Russian. Russian summary) **98m:49050**

Propoĭ, A. I. Extremal search in excitable media. (Russian)

Quincampoix, Marc (*with* Saint-Pierre, Patrick) An algorithm for viability kernels in Hölderian case: approximation by discrete dynamical systems. (English summary) **98i:49034**

Razzaghi, Mohsen *see* **Elnagar, Gamal N., 98d:49038**

Saint-Pierre, Patrick *see* **Quincampoix, Marc, 98i:49034**

Shenoy, A. R. *see* **Cliff, E. M.; et al., 98f:49031**

Vel'ov, V. M. On the time-discretization of control systems. (English summary) **98f:49034**

Wang, Hui[1] Approximation of the value function of an optimal control problem with finite horizon. (Chinese. Chinese summary) **98a:49052**

Yang, Yu Fei *see* **Zhang, Zhong Zhi, 98j:49042**

Zhang, Zhong Zhi (*with* Yang, Yu Fei) A class of solution methods for right-hand side optimal control problems for elliptic equations. (Chinese. English and Chinese summaries) **98j:49042**

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Agrawal, S. K. (*with* Xu, Xiaochun) A new procedure for optimization of a class of linear time-varying dynamic systems. (English summary)

Belbas, S. A. Forward dynamic programming for the numerical solution of parabolic control problems. (English summary) (*see* **98b:00027**)

Benamou, Jean-David A domain decomposition method with coupled transmission conditions for the optimal control of systems governed by elliptic partial differential equations. (English summary) **98b:65071**

Bondarko, V. A. Discretization of infinite-dimensional linear dynamical systems. (Russian. Russian summary) **98m:93098**

Camilli, Fabio Approximation of integro-differential equations associated with piecewise deterministic process. (English summary) **98m:49047**

Carstensen, Carsten (*with* Plecháč, Petr) Adaptive algorithms for scalar non-convex variational problems. (English summary) **98j:65046**

Feng, Wei Bing *see* **Wang, Wei Dong; et al.**

Fishman, L. Z. On discrete systems constructed by the Adams and the Nyström methods. (Russian. Russian summary)

Gobbino, Massimo Finite difference approximation of the Mumford-Shah functional. (English summary) **98m:49031**

Grad, J. R. (*with* Morris, K. A.) Solving the linear quadratic optimal control problem for infinite-dimensional systems. (English summary) **98e:49084**

Grüne, Lars An adaptive grid scheme for the discrete Hamilton-Jacobi-Bellman equation. (English summary) **98b:65136**

Kirjner-Neto, C. (*with* Polak, Elijah) On the use of consistent approximations for the optimal design of beams. (English summary) (*see* **98d:90014**)

Morris, K. A. *see* **Grad, J. R., 98e:49084**

Nakane, Kazuaki (*with* Okamura, Toshihiro; Omata, Seiro) Numerical analysis for the discrete Morse semiflow. **98a:65083**

Okamura, Toshihiro *see* **Nakane, Kazuaki; et al., 98a:65083**
Omata, Seiro *see* **Nakane, Kazuaki; et al., 98a:65083**
Plecháč, Petr *see* **Carstensen, Carsten, 98j:65046**
Polak, Elijah *see* **Kirjner-Neto, C., (98d:90014)**
Wang, Wei Dong (*with* Feng, Wei Bing; Wang, Yu Qiang) An arc length continuous method for solving the Navier-Stokes equations and an optimal control algorithm. (Chinese. English and Chinese summaries)
Wang, Yu Qiang *see* **Wang, Wei Dong; et al.**
Xu, Xiaochun *see* **Agrawal, S. K.**

49M27 Decomposition methods

Bark, Jai-Hyeong *see* **Ghattas, Omar, 98d:49039**
Ghattas, Omar (*with* Bark, Jai-Hyeong) Large-scale SQP methods for optimization of Navier-Stokes flows. (English summary) **98d:49039**
Moudafi, Abdellatif (*with* Théra, M.) Finding a zero of the sum of two maximal monotone operators. (English summary) **98f:49035**
Théra, M. *see* **Moudafi, Abdellatif, 98f:49035**

Items with secondary classifications in 49M27

Chen, George H.-G. (*with* Rockafellar, R. Tyrrell) Convergence rates in forward-backward splitting. (English summary) **98c:90090**
Cohen, Guy *see* **Renaud, Arnaud, 98e:65052**
Delyon, Bernard (*with* Juditsky, Anatoli) On the computation of wavelet coefficients. (English summary) **98a:42019**
Juditsky, Anatoli *see* **Delyon, Bernard, 98a:42019**
Renaud, Arnaud (*with* Cohen, Guy) Conditioning and regularization of nonsymmetric operators. (English summary) **98e:65052**
Rockafellar, R. Tyrrell *see* **Chen, George H.-G., 98c:90090**

49M29 Multiplier methods

Agrawal, Om Prakash (*with* Gregory, John[1]; Pericak-Spector, Kathleen) A Bliss-type multiplier rule for constrained variational problems with time delay. (English summary) **98g:49023**
Bergounioux, Maïtine Use of augmented Lagrangian methods for the optimal control of obstacle problems. (English summary) **98j:49043**
— (*with* Kunisch, Karl) Augmented Lagrangian techniques for elliptic state constrained optimal control problems. (English summary) **98d:49040**
Dohrmann, C. R. (*with* Robinett, Rush D.) Efficient sequential quadratic programming implementations for equality-constrained discrete-time optimal control. (English summary) **98h:49034**
Gregory, John[1] *see* **Agrawal, Om Prakash; et al., 98g:49023**
Kunisch, Karl *see* **Bergounioux, Maïtine, 98d:49040**
Pericak-Spector, Kathleen *see* **Agrawal, Om Prakash; et al., 98g:49023**
Robinett, Rush D. *see* **Dohrmann, C. R., 98h:49034**

Items with secondary classifications in 49M29

Kunisch, Karl (*with* Volkwein, S.) Augmented Lagrangian-SQP techniques and their approximations. (English summary) **98h:49032**
Volkwein, S. *see* **Kunisch, Karl, 98h:49032**

49M30 Other methods, not based on necessary conditions (penalty function, etc.)

Abbasov, A. M. *see* **Guliev, A. P.; et al., (98h:00035)**
Aliev, Fikret Akhmadalioglu *see* **Guliev, A. P.; et al., (98h:00035)**
Bacopoulos, A. *see* **Chryssoverghi, I.; et al., 98f:49036**
Belousov, E. G. On the continuity of point-set mappings connected with the method of penalty functions. (Russian) **98c:49068**
Chryssoverghi, I. (*with* Bacopoulos, A.; Kokkinis, B.; Coletsos, J.) Mixed Frank-Wolfe penalty method with applications to nonconvex optimal control problems. (English summary) **98f:49036**
Coletsos, J. *see* **Chryssoverghi, I.; et al., 98f:49036**
Guliev, A. P. (*with* Abbasov, A. M.; Aliev, Fikret Akhmadalioglu) Calculation algorithm of optimization problem two-point boundary conditions. (English summary) (*see* **98h:00035**)
Gutenbaum, Jakub Methods for optimal control of multistage processes. (English summary) **98e:49075**
Hettich, R. (*with* Kaplan, A. A.; Tichatschke, Rainer) Regularized penalty methods for ill-posed optimal control problems with elliptic equations. I. Distributed control with bounded control set and state constraints. (English summary) **98h:49035**
— (*with* Kaplan, A. A.; Tichatschke, Rainer) Regularized penalty methods for ill-posed optimal control problems with elliptic equations. II. Distributed and boundary control with unbounded control set and state constraints. (English summary) **98h:49036**
Jennings, L. S. *see* **Lee, H. W. J.; et al., 98e:49079**
Kaplan, A. A. *see* **Hettich, R.; et al., 98h:49035** *and* **98h:49036**
Kärkkäinen, Tommi (*with* Räisänen, T.) Abstract estimates of the rate of convergence for optimal control problems. (English summary) **98e:49076**
Kawohl, Bernhard (*with* Schwab, Christopher) Convergent finite elements for a class of nonconvex variational problems. (English summary) **98k:49045**
Kokkinis, B. *see* **Chryssoverghi, I.; et al., 98f:49036**
Kokurin, M. Yu. On the regularization of problems of the optimal control of solutions of some ill-posed variational inequalities of monotone type. (Russian. Russian summary) **98e:49077**
Le Brizaut, Jean-Sébastien (*with* Pogu, Marc) Une méthode non linéaire de contrôle avec pénalisation par l'équation d'état. (English and French summaries) [A nonlinear control method with penalization by the state function] **98e:49078**
Lee, H. W. J. (*with* Teo, Kok Lay; Rehbock, V.; Jennings, L. S.) Control parametrization enhancing technique for time optimal control problems. (English summary) **98e:49079**
Liu, Xiao Shi (*with* Zhang, Guang Cheng[1]) Convergence analysis of a multiparameter algorithm under a bounded variation condition. (Chinese. English and Chinese summaries) **98a:49053**
Montero García, Gustavo Solving optimal control problems by GAs. (*see* **98i:00031**)
Pan, Li Ping (*with* Teo, Kok Lay) Linear-nonquadratic optimal control problems with terminal inequality constraints. (English summary) **98h:49037**
Pogu, Marc *see* **Le Brizaut, Jean-Sébastien, 98e:49078**
Räisänen, T. *see* **Kärkkäinen, Tommi, 98e:49076**
Rehbock, V. *see* **Lee, H. W. J.; et al., 98e:49079**
Schwab, Christopher *see* **Kawohl, Bernhard, 98k:49045**
Shima, Masasuke *see* **Yamashita, Yuh, (98i:00030)**
Teo, Kok Lay *see* **Lee, H. W. J.; et al., 98e:49079** *and* **Pan, Li Ping, 98h:49037**
Tichatschke, Rainer *see* **Hettich, R.; et al., 98h:49035** *and* **98h:49036**
Yamashita, Yuh (*with* Shima, Masasuke) Numerical computational method using genetic algorithm for the optimal control problem with terminal constraints and free parameters. (*see* **98i:00030**)
Zhang, Guang Cheng[1] *see* **Liu, Xiao Shi, 98a:49053**

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Bătătorescu, Anton Computational procedures for a class of bottleneck problems. (English summary) **98c:49059**
Bonnans, J. Frédéric Exact penalization with a small nonsmooth term. (English summary) **98c:90129**
Braides, Andrea (*with* Dal Maso, Gianni) Non-local approximation of the Mumford-Shah functional. (English summary) **98c:49080**
Cominetti, R. Coupling the proximal point algorithm with approximation methods. (English summary) **98m:90101**
Dal Maso, Gianni *see* **Braides, Andrea, 98c:49080**
Elnagar, Gamal N. (*with* Khamayseh, Ahmed) On the optimal spectral Chebyshev solution of a controlled nonlinear dynamical system. (English summary) **98d:65096**
Khamayseh, Ahmed *see* **Elnagar, Gamal N., 98d:65096**
Kleis, D. (*with* Sachs, Ekkehard W.) Convergence rate of the augmented Lagrangian SQP method. (English summary) **98i:90091**
Kummer, Bernd Parametrizations of Kojima's system and relations to penalty and barrier functions. (English summary) **98a:90111**
Sachs, Ekkehard W. *see* **Kleis, D., 98i:90091**
Xing, Ji Xiang *see* **Zhang, Chun Rui**
Zhang, Chun Rui (*with* Xing, Ji Xiang) A Walsh series analysis method for a class of singular LQ problems. (Chinese. English and Chinese summaries)

49M35 Methods of linear programming type [see also 90C05]

Items with secondary classifications in 49M35

Kunisch, Karl (*with* Volkwein, S.) Augmented Lagrangian-SQP techniques and their approximations. (English summary) **98h:49032**
Ramana, Motakuri V. (*with* Tunçel, Levent; Wolkowicz, Henry) Strong duality for semidefinite programming. (English summary) **98m:90147**
Tunçel, Levent *see* **Ramana, Motakuri V.; et al., 98m:90147**
Volkwein, S. *see* **Kunisch, Karl, 98h:49032**
Wolkowicz, Henry *see* **Ramana, Motakuri V.; et al., 98m:90147**

49M37 Nonlinear programming [see also 90C30]

Agarwal, Ravi P. *see* **Liu, Yi[1]; et al.**
Ito, Kazufumi (*with* Kunisch, Karl) Estimation of the convection coefficient in elliptic equations. (English summary) **98e:49080**
Ito, Satoshi Inexact implementation of interior point algorithms for optimal control problems. (*see* **98c:65005**)
— Numerical methods of nonlinear optimal control based on mathematical programming. (*see* **98h:00034**)
Kunisch, Karl *see* **Ito, Kazufumi, 98e:49080**
Lee, Hyung-Chun Iteration method for constrained optimization problems governed by PDE. (English summary)
Liu, Yi[1] (*with* Teo, Kok Lay; Agarwal, Ravi P.) A general approach to nonlinear multiple control problems with perturbation consideration. (English summary)
Malanowski, Kazimierz Convergence of Lagrange-Newton method for control-state and pure state constrained optimal control problems. (English summary) **98f:49037**
Teo, Kok Lay *see* **Liu, Yi[1]; et al.**

Items with secondary classifications in 49M37

Agrawal, Om Prakash (*with* Gregory, John[1]; Pericak-Spector, Kathleen) A Bliss-type multiplier rule for constrained variational problems with time delay. (English summary) **98g:49023**
Andronov, V. G. (*with* Belousov, E. G.) On the weak convergence of the method of penalty functions with respect to the argument. (Russian. Russian summary) **98e:90147**
Antipin, A. S. Differential gradient systems for solving equilibrium programming problems. (Russian. Russian summary) **98m:90138**
Belousov, E. G. *see* **Andronov, V. G., 98e:90147**
Cai, Jin Shi *see* **Wang, Wen Zheng**
Degtiarieva-Kostova, E. V. *see* **Kostov, Vladimir Petrov, (98i:00022)**
Dohrmann, C. R. (*with* Robinett, Rush D.) Efficient sequential quadratic programming implementations for equality-constrained discrete-time optimal control. (English summary) **98h:49034**
Dontchev, Asen L. Uniform convergence of the Newton method for Aubin continuous maps. (English summary) **98i:90089**
Dymkov, M. P. Necessary conditions for optimality in convex problems of the control of discrete 2-D systems with constraints. (Russian. Russian summary) **98j:49038**
Ehtamo, H. *see* **Raivio, T.; et al., (98d:90014)**
Felgenhauer, Ursula Numerical optimality test for control problems. (English summary) **98c:49067**

Gill, Philip E. *see* **Petzold, Linda R.; et al., 98f:49003**
Goh, C. J. (*with* Yang, Xiao Qi) A sufficient and necessary condition for nonconvex constrained optimization. (English summary) **98d:90110**
Gregory, John[1] *see* **Agrawal, Om Prakash; et al., 98g:49023**
Hämäläinen, R. P. *see* **Raivio, T.; et al., (98d:90014)**
Ismailov, I. G. On a procedure for the approximate solution of control and optimization problems. (Russian. Russian summary) **98b:90169**
Jay, Laurent O. *see* **Petzold, Linda R.; et al., 98f:49003**
Khranovich, I. L. *see* **Levitin, E. S., 98c:90099**
Kostov, Vladimir Petrov (*with* Degtiariova-Kostova, E. V.) Computations of suboptimal paths in a planar motion with bounded derivative of the curvature. (*see* **98i:00022**)
Levitin, E. S. (*with* Khranovich, I. L.) A search for the global minimum in nonconvex programming problems with dependencies that are biseparable superpositions of convex functions. (Russian) **98c:90099**
Nitka-Styczeń, Krystyna Descent methods for optimal periodic hereditary control problems. (English summary) (*see* **98d:90014**)
Park, Kihong *see* **Petzold, Linda R.; et al., 98f:49003**
Pericak-Spector, Kathleen *see* **Agrawal, Om Prakash; et al., 98g:49023**
Petzold, Linda R. (*with* Rosen, J. Ben; Gill, Philip E.; Jay, Laurent O.; Park, Kihong) Numerical optimal control of parabolic PDEs using DASOPT. (English summary) **98f:49003**
Polyak, Roman A. Modified interior distance functions. (English summary) **98h:90083**
Raivio, T. (*with* Ehtamo, H.; Hämäläinen, R. P.) Aircraft trajectory optimization using nonlinear programming. (English summary) (*see* **98d:90014**)
Robinett, Rush D. *see* **Dohrmann, C. R., 98h:49034**
Rosen, J. Ben *see* **Petzold, Linda R.; et al., 98f:49003**
Sumin, M. I. Suboptimal control of systems with distributed parameters: normality properties and a dual subgradient method. (Russian. Russian summary) **98a:49011**
Wang, Wen Zheng (*with* Cai, Jin Shi) Optimal algorithms for set member identification of parameters of MIMO systems. (Chinese. English and Chinese summaries)
Yang, Xiao Qi *see* **Goh, C. J., 98d:90110**
Zhang, Lian-sheng A necessary and sufficient condition for global exactness of penalty functions. (Chinese. Chinese summary)
Zhao, Yun-Bin The iterative methods for monotone generalized variational inequalities. (English summary) **98k:49019**

49M45 Methods of convex programming type [see also 90C25]

Bauschke, Heinz H. (*with* Borwein, Jonathan M.; Lewis, Adrian S.) The method of cyclic projections for closed convex sets in Hilbert space. (English summary) **98c:49069**
— (*with* Borwein, Jonathan M.) Legendre functions and the method of random Bregman projections. (English summary) **98f:49038**
Borwein, Jonathan M. *see* **Bauschke, Heinz H.; et al., 98c:49069** *and* **98f:49038**
Lewis, Adrian S. *see* **Bauschke, Heinz H.; et al., 98c:49069**
Udrişte, Constantin Riemannian convexity in programming. I. **98e:49081**
— Riemannian convexity in programming. II. (English summary) **98e:49082**

Items with secondary classifications in 49M45

Alber, Yakov (*with* Burachik, Regina S.; Iusem, Alfredo Noel) A proximal point method for nonsmooth convex optimization problems in Banach spaces. (English summary) **98m:90185**
Bauschke, Heinz H. (*with* Borwein, Jonathan M.) On projection algorithms for solving convex feasibility problems. (English summary) **98f:90045**
Borwein, Jonathan M. *see* **Bauschke, Heinz H., 98f:90045**
Burachik, Regina S. *see* **Alber, Yakov; et al., 98m:90185**
Culioli, Jean-Christophe Problèmes de minimax partiel. (English and French summaries) [Partial minimax problems] **98c:49015**
Iusem, Alfredo Noel *see* **Alber, Yakov; et al., 98m:90185**
Kiwiel, Krzysztof C. (*with* Łopuch, Bożena) Surrogate projection methods for finding fixed points of firmly nonexpansive mappings. (English summary) **98j:90049**
Konnov, Igor V. Acceleration of the convergence of a combined relaxation method. (Russian. Russian summary) **98m:90103**
Łopuch, Bożena *see* **Kiwiel, Krzysztof C., 98j:90049**

49M99 None of the above, but in this section

Kokurin, M. Yu. On the discrete regularization of nonlinear equations and optimal control problems by singular systems. (Russian) **98i:49035**

Items with secondary classifications in 49M99

Ahmad, Rais *see* **Siddiqi, Abul Hasan; et al., 98k:47131**
Badriev, I. B. (*with* Pankratova, O. V.; Shagidullin, R. R.) Iterative methods for solving filtration problems with a discontinuous law with a limit gradient. (Russian. Russian summary) **98k:76113**
Cohen, Guy (*with* Renaud, Arnaud) An extension of the auxiliary problem principle to nonsymmetric auxiliary operators. (English summary) **98i:49011**
Fattorini, H. O. Robustness and convergence of suboptimal controls in distributed parameter systems. (English summary) **98j:49035**
Galiev, Sh. I. Determination of approximate solutions of minimax problems. (Russian. Russian summary) **98j:49010**
Gunzburger, Max D. (*with* Hou, LiSheng; Ravindran, S. S.) Analysis and approximation of optimal control problems for a simplified Ginzburg-Landau model of superconductivity. (English summary) **98k:49009**
Hou, LiSheng *see* **Gunzburger, Max D.; et al., 98k:49009**
Kandoba, I. N. On a numerical solution of domain optimization problems for a class of elliptic systems. (Russian. Russian summary) **98a:49065**
Kaplan, A. A. (*with* Tichatschke, Rainer) Prox-regularization and solution of ill-posed elliptic variational inequalities. (English summary) **98b:49009**
Khan, Mohammad Firdosh *see* **Siddiqi, Abul Hasan; et al., 98k:47131**
Kokurin, M. Yu. On the regularization of singular optimal control problems for linear equations with selfadjoint operators. (Russian. Russian summary) **98m:49010**
Mignanego, F. (*with* Sciomachen, A.) Incentive strategies with threats in dynamic constrained-Stackelberg problems. A bilevel programming approach. (English summary) **98k:90163**
Nguyễn Bu'ò'ng Convergence rates and finite-dimensional approximation for a class of ill-posed variational inequalities. (English summary) **98m:49023**
Noor, Muhammad Aslam Solvability of generalized strongly nonlinear set-valued variational inequalities. (English summary) **98j:49016**
— Numerical methods for monotone mixed variational inequalities. (English summary) **98k:49015**
Pankratova, O. V. *see* **Badriev, I. B.; et al., 98k:76113**
Ravindran, S. S. *see* **Gunzburger, Max D.; et al., 98k:49009**
Renaud, Arnaud *see* **Cohen, Guy, 98i:49011**
Roubíček, Tomáš Numerical approximation of relaxed variational problems. (English summary) **98j:49007**
Schmitt, Horst On the regularized Bingham problem. (English summary) **98j:49017**
Sciomachen, A. *see* **Mignanego, F., 98k:90163**
Shagidullin, R. R. *see* **Badriev, I. B.; et al., 98k:76113**
Siddiqi, Abul Hasan (*with* Khan, Mohammad Firdosh; Ahmad, Rais) Wiener-Hopf equations and general mildly nonlinear variational inequalities. (English summary) **98k:47131**
Solonoukha, Olesya Vladimirovna On the approximate solving of control problems for systems described by variational inequalities with nonlinear operators. (English summary) **98b:49012**
Tichatschke, Rainer *see* **Kaplan, A. A., 98b:49009**

49Nxx Miscellaneous topics

49N05 Linear optimal control problems [see also 93C05]

Items with secondary classifications in 49N05

Boltyanskiĭ, Vladimir Grigor'evich (*with* Marti Vazques, J.) On Bellman spheres for linear controlled objects of second order. (English summary) **98j:49002**
Danilin, A. R. (*with* Il'in, A. M.) Asymptotic behavior of the solution of the time-optimality problem for a linear system under perturbation of initial data. (Russian) **98c:49056**
Gao, Xuedong (*with* Kirillova, F. M.) Optimization of control systems with a piecewise-linear output. (English summary) **98i:49025**
Il'in, A. M. *see* **Danilin, A. R., 98c:49056**
Kalinin, A. I. (*with* Kirillova, F. M.; Kostyukova, O. I.) Stabilization of linear dynamical systems by means of low-inertia controls. I. The accompanying optimal control problem. (Russian. Russian summary) **98e:93087**
— (*with* Kirillova, F. M.; Kostyukova, O. I.) Stabilization of linear dynamical systems by means of low-inertia controls. II. Continuous stabilizer. (Russian. Russian summary) **98k:93096**
Kirillova, F. M. *see* **Kalinin, A. I.; et al., 98e:93087**; **Gao, Xuedong, 98i:49025** *and* **Kalinin, A. I.; et al., 98k:93096**
Kostyukova, O. I. *see* **Kalinin, A. I.; et al., 98e:93087** *and* **98k:93096**
Marti Vazques, J. *see* **Boltyanskiĭ, Vladimir Grigor'evich, 98j:49002**
Pan, Li Ping Infinite-dimensional linear-nonquadratic optimal control problems. (Chinese. Chinese summary) **98f:49009**
Pullan, Malcolm C. A study of general dynamic network programs with arc time-delays. (English summary) **98i:90119**
Rotstein, Héctor *see* **Sideris, Athanasios, 98d:93046**
Sideris, Athanasios (*with* Rotstein, Héctor) Constrained H_∞ optimal control over an infinite horizon. (English summary) **98d:93046**

49N10 Linear-quadratic problems

Agrawal, S. K. (*with* Xu, Xiaochun) A new procedure for optimization of a class of linear time-varying dynamic systems. (English summary)
Al-Humadi, Ala An application of matrix generalized inverses to optimal control problems of linear time-invariant discrete-time systems. (English summary) (*see* **98b:00023**)
Amman, Hans M. Numerical methods for linear-quadratic models. (*see* **98b:90001**)
Artstein, Zvi (*with* Gaĭtsgori, V. G.) Linear-quadratic tracking of coupled slow and fast targets. (English summary) **98h:49038**
Deng, Zi Chen (*with* Zhong, Wan Xie) The solution for the generalized Riccati algebraic equations of linear equality constraint system. (Chinese. English and Chinese summaries)
Dymkov, M. P. (*with* Gaĭshun, Ivan Vasil'evich) Linear-quadratic optimal control for 2-D systems in Hilbert space. (English summary) **98e:49083**
— The quadratic optimization problem in linear 2-D control systems. (Russian. Russian summary) **98i:49036**
El Alami, N. (*with* Ouansafi, A.; Znaidi, N.) On the discrete linear quadratic minimum-time problem. (English summary) **98k:49046**
Gaĭshun, Ivan Vasil'evich *see* **Dymkov, M. P., 98e:49083**
Gaĭtsgori, V. G. *see* **Artstein, Zvi, 98h:49038**
Geerts, Antonius Henricus Wilhelmus Infinite-horizon linear-quadratic control with end-point state penalty term: the discrete-time case. (English summary) **98i:49037**
Grad, J. R. (*with* Morris, K. A.) Solving the linear quadratic optimal control problem for infinite-dimensional systems. (English summary) **98e:49084**
Huang, Shou Dong (*with* Zhang, Si Ying) The solving of Riccati equations for large-scale systems with symmetric circulant structure. (English and Chinese summaries)
Ionescu, Vlad The signature condition and its application to circuits and systems theory. (English summary)
Katayama, Tohru *see* **Kawamoto, Atsushi, 98d:49041**

Kawamoto, Atsushi (*with* Katayama, Tohru) The dissipation inequality and generalized algebraic Riccati equation for the linear quadratic control problem of a descriptor system. (Japanese. English summary) **98d:49041**
Kirillova, F. M. (*with* Lubochkin, A. V.) Synthesis of an optimal control in a linear-quadratic problem with constraints. (Russian) **98k:49047**
Li, Guang Quan *see* **Liu, Ze Yi; et al., 98c:49070**
Li, Xun Jing (*with* Teo, Kok Lay; Liu, Wan Quan) Tracking control for nonlinear affine systems. (English summary)
Liu, Wan Quan *see* **Li, Xun Jing; et al.**
Liu, Ze Yi (*with* Mao, Yun Ying; Wang, Chun Feng; Li, Guang Quan) A class of linear-quadratic optimal control problems with state constraints. (Chinese. English and Chinese summaries) **98c:49070**
Lubochkin, A. V. *see* **Kirillova, F. M., 98k:49047**
Mao, Yun Ying *see* **Liu, Ze Yi; et al., 98c:49070**
Matveev, A. S. (*with* Yakubovich, Vladimir A.) Nonconvex problems of global optimization: linear-quadratic control problems with quadratic constraints. (English summary) **98a:49054**
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— (*with* Petersen, Ian R.) Guaranteed cost control of uncertain systems with a time-multiplied quadratic cost function: an approach based on linear matrix inequalities. (English summary)
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Boukas, E. K. (*with* Swierniak, A.; Yang, Hailiang) On the robustness of jump linear quadratic control. (English summary) **98g:93054**
Callier, Frank M. On output-stabilizability and detectability of discrete-time LQ-optimal control systems. (English summary) **98m:93099**
Chen, Ben M. (*with* Saberi, Ali; Shamash, Yacov) Necessary and sufficient conditions under which a discrete time H_2-optimal control problem has an unique solution. (English and Chinese summaries) **98c:93034**
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— (*with* Sagastizábal, Claudia) Practical aspects of the Moreau-Yosida regularization: theoretical preliminaries. (English summary) **98e:49085**
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— (*with* Riahi, Hassan; Théra, M.) Somme ponctuelle d'opérateurs maximaux monotones. (English summary) [Pointwise sum of maximal monotone operators] **98e:47083**
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— (*with* Kumar, Narender; Bhudraja, R. K.) Duality theorems for nondifferentiable multiobjective programs. (English summary) **98k:90095**
— (*with* Mehra, Aparna) Lagrangian duality for preinvex set-valued functions. (English summary) **98j:90057**
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Gorelik, V. A. (*with* Pulicheva, E. A.) A modified Lagrange function in extremal problems with implicitly given objective functions and constraints. (Russian. Russian summary) (*see* **98b:93008**)
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Levin, Vladimir L. Topics in the duality theory for mass transfer problems. (English summary) (*see* **98k:60003**)
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Li, Yan Zhong (*with* Wang, Zuo Quan) Duality theorems for (VP) and (VD) programming problems with ρ-invariant convex functions. (Chinese. English and Chinese summaries)
Li, Zhong-Fei (*with* Chen, Guang Ya) Lagrangian multipliers, saddle points, and duality in vector optimization of set-valued maps. (English summary) **98m:90128**
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Liu, Jen-Chwan (*with* Lin, Chin-Cheng; Sheu, Ruey-Lin) Optimality and duality for complex nondifferentiable fractional programming. (English summary) **98d:90119**
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— (*with* Singer, Ivan) An extension of d.c. duality theory, with an appendix on $*$-subdifferentials. (English summary) **98i:90069**
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Mishra, Sashi Kant Generalized fractional programming problems containing locally subdifferentiable and ρ-univex functions. (English summary) **98b:90138**
Mond, Bertram (*with* Zhang, Jinyun) Nonlinear programming with strong pseudo-invex constraints. (English summary)
Mukherjee, Rathindra Nath[1] (*with* Purnachandra Rao, Ch.) Generalized F-convexity and its classification. (English summary) **98e:90122**
Nahak, C. (*with* Nanda, Sudarsan) On efficiency and duality for multiobjective variational control problems with $(F-\rho)$-convexity. (English summary) **98j:90062**
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Nowakowski, Andrzej Duality for nonconvex variational problems and differential equations. (English and Serbo-Croatian summaries) **98k:49016**
Oettli, Werner (*with* Yamasaki, Maretsugu) Duality theorems on an infinite network. **98m:90175**
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Patel, R. B. Second order duality in multiobjective fractional programming. (English summary)
Phan Thiên Thạch (*with* Konno, Hiroshi) On the degree and separability of nonconvexity and applications to optimization problems. (English summary) **98c:90101**
Preda, Vasile (*with* Stancu-Minasian, I. M.) Duality in multiple objective programming involving semilocally preinvex and related functions. (English summary) **98j:90063**
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— (*with* Tunçel, Levent; Wolkowicz, Henry) Strong duality for semidefinite programming. (English summary) **98m:90147**
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49N20 Periodic optimization

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Tornambè, Antonio On the analysis of periodic linear systems. (English summary) **98c:93060**

49N25 Impulsive optimal control problems [see also 93C57]

Camilli, Fabio (*with* Falcone, Maurizio) Analysis and approximation of an impulse control problem on an infinite time interval. (Russian. Russian summary) **98m:49052**
Emel'yanov, D. D. Optimal impulse control of an information set in the problem of guidance from incomplete data. (Russian. Russian summary) **98m:49053**
Falcone, Maurizio *see* **Camilli, Fabio, 98m:49052**
Kalinin, A. I. (*with* Kirillova, F. M.) Asymptotic minimization of the total impulse of control actions. (Russian. Russian summary) **98j:49047**
Kirillova, F. M. *see* **Kalinin, A. I., 98j:49047**
Rowland, John D. L. *see* **Silva, Geraldo Nunes, 98g:49025**
Sesekin, A. N. On the connectedness of the set of discontinuous solutions of a nonlinear dynamical system with impulse control. (Russian) **98d:49044**
Silva, Geraldo Nunes (*with* Rowland, John D. L.) On the optimal impulsive control problem. (English and Portuguese summaries) **98g:49025**
— (*with* Vinter, Richard B.) Necessary conditions for optimal impulsive control problems. (English summary) **98h:49040**
Vinter, Richard B. *see* **Silva, Geraldo Nunes, 98h:49040**

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Bensoussan, Alain (*with* Menaldi, Jose-Luis) Hybrid control and dynamic programming. (English summary) **98m:93119**
Drakhlin, Mikhail E. (*with* Stepanov, Eugene) Γ-convergence for a class of functionals with deviating argument. (English summary) **98j:49022**
Menaldi, Jose-Luis *see* **Bensoussan, Alain, 98m:93119**
Miller, Boris M. (*with* Runggaldier, Wolfgang J.) Optimization of observations: a stochastic control approach. (English summary) **98c:93101**
Runggaldier, Wolfgang J. *see* **Miller, Boris M., 98c:93101**
Stepanov, Eugene *see* **Drakhlin, Mikhail E., 98j:49022**

49N35 Closed-loop controls

Akulenko, L. D. Control synthesis in the time-optimal problem of the intersection of a sphere. (Russian. Russian summary)
Al'brekht, È. G. (*with* Sobolev, O. N.) Synthesis of control systems with minimal energy. (Russian. Russian summary) **98d:49045**
Bulychev, Yu. G. (*with* Burlaĭ, I. V.) Synthesis of an optimal control algorithm in the class of functions with compactly supported spectrum on a nonuniform interpolation grid. (Russian. Russian summary) **98d:49046**
Burlaĭ, I. V. *see* **Bulychev, Yu. G., 98d:49046**
Chernousko, F. L. (*with* Shmatkov, A. M.) Time-optimality synthesis in a third-order system. (Russian)
Davideanu, Cătălina Optimal feedback control for a problem governed by a multivalued bilinear differential equation. (English and Romanian summaries) **98m:49054**
Gabasov, R. (*with* Kirillova, F. M.; Kostina, E. A.) Closable feedback with respect to state for optimization of uncertain control systems. Part 1. Single loop. (Russian. Russian summary) **98a:49056**
— (*with* Kostyukova, O. I.) Synthesis of optimal feedback for systems with internal constraints on the control. I. Optimal feedback and defining equations for an optimal controller. (Russian. Russian summary) **98e:49089**
— (*with* Kostyukova, O. I.) Synthesis of optimal feedback for systems with internal constraints on the control. II. An algorithm for the operation of an optimal controller. (Russian. Russian summary) **98e:49090**
— (*with* Kirillova, F. M.; Prishchepova, S. V.) Optimal controller for discrete systems with indeterminate perturbations. (English summary) **98j:49048**
— (*with* Kirillova, F. M.; Kostyukova, O. I.) Real-time construction of a positional solution in a linear problem of hierarchical control. (Russian)
Goh, C. J. *see* **Redfern, D. A., (98d:90014)**
Kirillova, F. M. *see* **Gabasov, R.; et al., 98a:49056; 98j:49048**
Kostina, E. A. *see* **Gabasov, R.; et al., 98a:49056**
Kostyukova, O. I. *see* **Gabasov, R., 98e:49089; 98e:49090**
Macki, Jack W. (*with* Nistri, Paolo; Zecca, Pietro) Measurable and directionally continuous selections for the control of uncertain systems. (English summary) **98a:49057**
Nistri, Paolo *see* **Macki, Jack W.; et al., 98a:49057**
Prishchepova, S. V. *see* **Gabasov, R.; et al., 98j:49048**
Redfern, D. A. (*with* Goh, C. J.) Feedback control of state constrained optimal control problems. (English summary) (*see* **98d:90014**)
Shmatkov, A. M. *see* **Chernousko, F. L.**
Sobolev, O. N. *see* **Al'brekht, È. G., 98d:49045**
Zecca, Pietro *see* **Macki, Jack W.; et al., 98a:49057**

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Bressan, Alberto (*with* Piccoli, Benedetto) Structural stability for time-optimal planar syntheses. (English summary) **98e:49006**
Chernousko, F. L. Decomposition and suboptimal control in dynamical systems. (English summary) (*see* **98d:90014**)
Datta, Kanti B. *see* **Mohan, B. M.**
Edwards, N. J. *see* **Goh, C. J., 98a:93028**
Gao, Xuedong (*with* Li, Zongyuan) Synthesis of optimal feedback controls for piecewise linear system. (English and Chinese summaries) **98k:49031**
Goh, C. J. (*with* Edwards, N. J.) Approximate output feedback optimal control of higher-order dynamical systems. (English summary) **98a:93028**
Hsiao, Feng-Hsiag (*with* Hwang, Jiing-Dong) Optimal controller for dithered systems with backlash or hysteresis. (English summary) **98a:93035**
Hwang, Jiing-Dong *see* **Hsiao, Feng-Hsiag, 98a:93035**
Kirillova, F. M. (*with* Lubochkin, A. V.) Synthesis of an optimal control in a linear-quadratic problem with constraints. (Russian) **98k:49047**
Kiselev, Yu. N. Control systems with an integral invariant. (Russian. Russian summary) **98a:49009**
Li, Guang Quan *see* **Liu, Ze Yi; et al., 98c:49070**
Li, Zongyuan *see* **Gao, Xuedong, 98k:49031**
Liu, Wan Quan (*with* Sreeram, V.) New algorithm for computing LQ suboptimal output feedback gains of decentralized control systems. (English summary) **98d:93004**
Liu, Ze Yi (*with* Mao, Yun Ying; Wang, Chun Feng; Li, Guang Quan) A class of linear-quadratic optimal control problems with state constraints. (Chinese. English and Chinese summaries) **98c:49070**
Lozowicki, Adam On application of the describing function method for optimization of feedback control systems. (English summary) **98i:93027**
Lubochkin, A. V. *see* **Kirillova, F. M., 98k:49047**
Mao, Yun Ying *see* **Liu, Ze Yi; et al., 98c:49070**
Mesbahi, Mehran On the rank minimization problem and its control applications. (English summary) **98k:93043**
Mohan, B. M. (*with* Datta, Kanti B.) On the optimal control of linear discrete-time systems via discrete orthogonal functions. (English summary)
Petersen, Ian R. *see* **Savkin, A. V., 98c:93070** *and* **98j:93055**
Piccoli, Benedetto *see* **Bressan, Alberto, 98e:49006**
Rautert, T. (*with* Sachs, Ekkehard W.) Computational design of optimal output feedback controllers. (English summary) **98j:93046**
Sachs, Ekkehard W. *see* **Rautert, T., 98j:93046**
Savkin, A. V. (*with* Petersen, Ian R.) Optimal guaranteed-cost control of discrete-time nonlinear uncertain systems. (English summary) **98j:93055**
— (*with* Petersen, Ian R.) Output feedback guaranteed cost control of uncertain systems on an infinite time interval. (English summary) **98c:93070**
Sheen, I. E. (*with* Tsai, Jason S. H.; Shieh, Leang-San) Optimal digital redesign of continuous-time systems with input time delay and/or asynchronous sampling. (English summary)
Shieh, Leang-San *see* **Sheen, I. E.; et al.**
Sreeram, V. *see* **Liu, Wan Quan, 98d:93004**
Stefani, G. (*with* Zezza, P.) Constrained regular LQ-control problems. (English summary) **98g:49024**
Taran, V. N. (*with* Trofimenko, V. N.) Synthesis of an optimal angular stabilization algorithm by the prediction model method. (Russian. Russian summary)
Trofimenko, V. N. *see* **Taran, V. N.**
Tsai, Jason S. H. *see* **Sheen, I. E.; et al.**
Wang, Chun Feng *see* **Liu, Ze Yi; et al., 98c:49070**
You, Yuncheng Synthesis of time-variant optimal control with nonquadratic criteria. (English summary) **98h:49001**
Zezza, P. *see* **Stefani, G., 98g:49024**

49N40 Open-loop controls

Items with secondary classifications in 49N40

Hejmo, Wladyslaw (*with* Kloch, Jacenty) On singular phenomena in certain time-optimal problem. (English summary) **98c:49005**
Kloch, Jacenty *see* **Hejmo, Wladyslaw, 98c:49005**

49N50 Inverse problems in optimal control theory

Items with secondary classifications in 49N50

Anikin, S. A. An error estimate for a regularization method in problems of the reconstruction of the inputs of dynamical systems. (Russian. Russian summary) **98m:93055**
Kunisch, Karl (*with* Volkwein, S.) Augmented Lagrangian-SQP techniques and their approximations. (English summary) **98h:49032**
Shutyaev, V. P. Iterative methods for reconstructing initial data in singularly perturbed evolution problems. (Russian. Russian summary) **98k:65034**
Volkwein, S. *see* **Kunisch, Karl, 98h:49032**

49N55 Noneconomic applications of optimal control theory and differential games [see also 90D25]

Antonic, Nenad (*with* Balenovic, Neven) On a variational problem related to a model of black and white printing. (English summary)
Balenovic, Neven *see* **Antonic, Nenad**
Barbargires, C. A. (*with* Karybakas, C. A.) Optimal control of first-order plants by deadbeat techniques. (English summary)
Belloni, Marino (*with* Kawohl, Bernhard) On Newton's problem under side constraints. (English summary) (*see* **98b:00027**)
Bruneau, Ch.-H. (*with* Fabrie, Pierre; Veersé, F.) Optimal control data assimilation with an atmospheric model. (English summary) **98g:49026**
Butt, Rizwan Design problem solved by optimal control theory. (English summary) **98b:49028**
Degtiariova-Kostova, E. V. *see* **Kostov, Vladimir Petrov, (98i:00022)**
Di Meglio, A. (*with* Ercoli Finzi, A.) Minimum time control of flexible spacecraft by Hamilton's principle. (English and Italian summaries)
Egerstedt, Magnus (*with* Martin, Clyde F.) A control-theoretic model of the combined planar motion of the human head and eye. (English summary)
Ehtamo, H. *see* **Raivio, T.; et al., (98d:90014)**
Ercoli Finzi, A. *see* **Di Meglio, A.**
Fabrie, Pierre *see* **Bruneau, Ch.-H.; et al., 98g:49026**
Frangos, C. *see* **Yavin, Y.; et al.**
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Karybakas, C. A. *see* **Barbargires, C. A.**
Kawohl, Bernhard *see* **Belloni, Marino, (98b:00027)**
Khmelnitsky, Eugene *see* **Kogan, Konstantin**
Kogan, Konstantin (*with* Khmelnitsky, Eugene) Tracking demands in optimal control of managerial systems with continuously-divisible, doubly constrained resources. (English summary)
Kostov, Vladimir Petrov (*with* Degtiariova-Kostova, E. V.) Computations of suboptimal paths in a planar motion with bounded derivative of the curvature. (*see* **98i:00022**)
Krotov, V. F. Optimal control of flight trajectories. Absolute optimum, analytic solutions and algorithms. II. (Russian. Russian summary) **98a:49058**
Lee, H. W. J. (*with* Teo, Kok Lay; Jennings, L. S.) On optimal control of multi-link vertical planar robot arms systems moving under the effect of gravity. (English summary)
Martin, Clyde F. *see* **Egerstedt, Magnus**
Miele, A. (*with* Wang, Tong) Optimal trajectories for Earth-to-Mars flight. (English summary) **98j:49049**
Miloh, T. *see* **Yavin, Y.; et al.**
Morkov, B. I. On the effectiveness of the use of a solar sail for the problem of the optimal control of orbital motion. (Russian. English, Russian and Moldavian summaries)
Raivio, T. (*with* Ehtamo, H.; Hämäläinen, R. P.) Aircraft trajectory optimization using nonlinear programming. (English summary) (*see* **98d:90014**)
Shamandy, A. (*with* Varga, Z.) An age-specific optimal harvesting model. (English summary)
Teo, Kok Lay *see* **Lee, H. W. J.; et al.**
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Wang, Tong *see* **Miele, A., 98j:49049**
Xiao, Changji Optimal control of the proportion of educators to scientists and technicians among graduates. (English and Chinese summaries)
Yavin, Y. (*with* Frangos, C.; Miloh, T.; Zilman, G.) Errata: "Collision avoidance by a ship with a moving obstacle: computation of feasible command strategies" [J. Optim. Theory Appl. **93** (1997), no. 1, 53–66; MR 97m:49030]. (English summary)
Zilman, G. *see* **Yavin, Y.; et al.**

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Adali, Sarp *see* **Sadek, I. S.; et al., 98e:49057**
Akulenko, L. D. Control synthesis in the time-optimal problem of the intersection of a sphere. (Russian. Russian summary)
Bandler, John W. (*with* Biernacki, Radek M.; Chen, Shao Hua; Hemmers, Ronald H.; Madsen, Kaj) Space mapping optimization for engineering design. (English summary) (*see* **98b:90003**)
Barbu, Viorel (*with* Pavel, N. H.) Determining the acoustic impedance in the 1-D wave equation via an optimal control problem. (English summary) **98g:35209**
Biernacki, Radek M. *see* **Bandler, John W.; et al., (98b:90003)**
Bruch, J. C., Jr. *see* **Sadek, I. S.; et al., 98e:49057**
Buratto, Alessandra (*with* Viscolani, Bruno) Optimal study/advertising plan for a knowledge/goodwill evolution process with rank memory. (English summary) **98g:90042**
Casavola, Alessandro (*with* Mosca, Edoardo) Minimization of a closed-loop response to a fixed input for SISO systems. (English summary) **98j:93042**
(Chandra, Jagdish) *see* **Smart structures and materials 1997: mathematics and control in smart structures, 98d:00024**
Chen, Shao Hua *see* **Bandler, John W.; et al., (98b:90003)**
Chinchaladze, S. *see* **Gogodze, I., 98b:78024**
Cohen, Agnès (*with* Shaked, Uri) Robust discrete-time H_∞-optimal tracking with preview. (English summary)
Dement'ev, V. T. *see* **Gladyshev, A. I.; et al., 98a:93003**
Duda, Z. Numerical solutions to bilinear models arising in cancer chemotherapy. (English summary) **98b:92006**
Elnagar, Gamal N. (*with* Khamayseh, Ahmed) On the optimal spectral Chebyshev solution of a controlled nonlinear dynamical system. (English summary) **98d:65096**
Erzin, A. I. *see* **Gladyshev, A. I.; et al., 98a:93003**
Gladyshev, A. I. (*with* Dement'ev, V. T.; Erzin, A. I.) Models and problems of the optimal synthesis of homogeneous hierarchical systems. (Russian. Russian summary) **98a:93003**
Glizer, V. Y. Optimal planar interception with fixed end conditions: approximate solutions. (English summary) **98b:90194**
Gogodze, I. (*with* Chinchaladze, S.) Generalized controls in a problem of the synthesis of optical media. (Russian. English and Georgian summaries) **98b:78024**
Guo, Bao Zhu (*with* Wu, Guo Fu) The optimal control of age-dependent population dynamics based on parity progression. (English summary) **98i:92030**
Hemmers, Ronald H. *see* **Bandler, John W.; et al., (98b:90003)**
Hrovat, D. Survey of advanced suspension developments and related optimal control applications. (English summary)
Ikeda, Tomohiro *see* **Sakawa, Masatoshi; et al.**
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Jones, Richard W. (*with* Sbarbaro, Daniel G.) An approach to robust optimal control. (English summary)
Karbuz, Sohbet *see* **Neck, Reinhard, (98d:90006)**
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Khamayseh, Ahmed *see* **Elnagar, Gamal N., 98d:65096**
Kirjner-Neto, C. (*with* Polak, Elijah) On the use of consistent approximations for the optimal design of beams. (English summary) (*see* **98d:90014**)
Kirschner, Denise (*with* Lenhart, Suzanne; Serbin, Steve) Optimal control of the chemotherapy of HIV. (English summary) **98h:92022**
Kirushev, V. A. (*with* Malozëmov, V. N.; Pevnyĭ, A. B.) The dragon's tail. (Russian. Russian summary) **98h:73064**
Klempous, Ryszard (*with* Kotowski, Jerzy; Nikodem, Jan; Ułasiewicz, Jędrzej) Optimization algorithms of operative control in water distribution systems. (English summary)
Kolosov, G. E. Control of the size of a population described by a stochastic logistic model. (Russian. Russian summary) **98i:92032**
Kotowski, Jerzy *see* **Klempous, Ryszard; et al.**
Launay, Geneviève (*with* Pelletier, Michèle) Synthèse temps-minimale au voisinage d'une cible de codimension un: cas exceptionnel plat en dimension trois. (English and French summaries) [Time-minimal synthesis in the neighborhood of a target of codimension one: exceptional flat case in dimension three] **98k:49007**
Lenhart, Suzanne *see* **Kirschner, Denise; et al., 98h:92022**
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Malozëmov, V. N. *see* **Kirushev, V. A.; et al., 98h:73064**
Mansimov, K. B. Investigation of quasi-singular processes in a problem of the control of a chemical reactor. (Russian. Russian summary) **98k:49034**
Marin, Maxim (*with* Kawahara, Mutsuto) Optimal control of vorticity in Rayleigh-Bernard convection by finite element method. (English summary)
Mosca, Edoardo *see* **Casavola, Alessandro, 98j:93042**
Müller, Peter C. Optimal control of mechanical descriptor systems. (*see* **98b:70035**)
Neck, Reinhard (*with* Karbuz, Sohbet) Towards constructing an objective function for Austrian fiscal policy-making: an optimum control approach. (English summary) (*see* **98d:90006**)
Nikodem, Jan *see* **Klempous, Ryszard; et al.**
Pavel, N. H. *see* **Barbu, Viorel, 98g:35209**
Pelletier, Michèle *see* **Launay, Geneviève, 98k:49007**
Petrosyan, L. A. (*with* Zakharov, Viktor Vasil'evich) ★ Математические модели в экологии. (Russian. Russian summary) [Mathematical models in ecology] **98m:92031**
Pevnyĭ, A. B. *see* **Kirushev, V. A.; et al., 98h:73064**
Polak, Elijah *see* **Kirjner-Neto, C., (98d:90014)**
Potapov, M. M. A nonlinear optics equation with transformations of the independent space variable as controlling actions. (Russian. Russian summary) **98m:78031**
Ravindran, S. S. Numerical solutions of optimal control for thermally convective flows. (English summary) **98d:76107**
Rutkovskiĭ, V. Yu. (*with* Sukhanov, V. M.) Large space constructions: models, research methods and control principles. II. (Russian. Russian summary)
Sadek, I. S. (*with* Sloss, J. M.; Adali, Sarp; Bruch, J. C., Jr.) Optimal boundary control of the longitudinal vibrations of a rod using a maximum principle. (English summary) **98e:49057**
Sakawa, Masatoshi (*with* Inuiguchi, Masahiro; Kato, Kosuke; Ikeda, Tomohiro) An interactive fuzzy satisficing method for multiobjective optimal control problems in linear distributed-parameter systems. (English summary)
Sbarbaro, Daniel G. *see* **Jones, Richard W.**
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Sukhanov, V. M. *see* **Rutkovskiĭ, V. Yu.**
Sweilam, N. H. On the optimal control of parabolic variational inequalities, the evolution dam problem. (English summary) **98m:49008**
Ułasiewicz, Jędrzej *see* **Klempous, Ryszard; et al.**
(Varadan, Vasundara V.) *see* **Smart structures and materials 1997: mathematics and control in smart structures, 98d:00024**
Viscolani, Bruno *see* **Buratto, Alessandra, 98g:90042**

Wong, Kar Hung (*with* Lock, N.) Optimal control of a chemical reactor. (English summary) **98c:35158**
Wu, Guo Fu *see* **Guo, Bao Zhu, 98i:92030**
Yi, Fa Huai (*with* Shih, Tsi Min; Yong, Jiong Min) Optimal control for the boundary flux to the continuous casting problem. (English summary) **98h:49031**
Yong, Jiong Min *see* **Yi, Fa Huai; et al., 98h:49031**
Zakharov, Viktor Vasil'evich *see* **Petrosyan, L. A., 98m:92031**

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49N60 Regularity of solutions in the calculus of variations

Ambrosio, Luigi (*with* Pallara, Diego) Partial regularity of free discontinuity sets. I. **98j:49050**
— (*with* Fusco, Nicola; Pallara, Diego) Partial regularity of free discontinuity sets. II. **98j:49051**
Carbou, Gilles Regularity for critical points of a nonlocal energy. (English summary) **98h:49041**
Chiadò Piat, Valeria (*with* Coscia, Alessandra) Hölder continuity of minimizers of functionals with variable growth exponent. **98e:49091**
Cianchi, Andrea Boundedness of solutions to variational problems under general growth conditions. **98k:49052**
Clarke, Francis H. (*with* Ledyaev, Yu. S.; Vinter, Richard B.) Regularity properties of solutions to linear quadratic optimal control problems with state constraints. (English summary) **98d:49047**
— (*with* Ledyaev, Yu. S.; Vinter, Richard B.) Addendum to: "Regularity properties of solutions to linear quadratic optimal control problems with state constraints" [Systems Control Lett. **30** (1997), no. 5, 265–272; MR 98d:49047]. **98d:49047**
Coscia, Alessandra *see* **Chiadò Piat, Valeria, 98e:49091**
Dierkes, Ulrich On the regularity of solutions for a singular variational problem. **98h:49042**
Dougherty, Michael M. (*with* Phillips, Daniel) Higher gradient integrability of equilibria for certain rank-one convex integrals. (English summary) **98a:49059**
Fan, Xian-ling The regularity of Lagrangians $f(x,\xi)=|\xi|^{\alpha(x)}$ with Hölder exponents $\alpha(x)$. (English summary) **98e:49092**
Fiorenza, Alberto Regularity results for minimizers of certain one-dimensional Lagrange problems of calculus of variations. (Italian summary) **98h:49043**
Fuchs, Martin² (*with* Serëgin, G. A.) Hölder continuity for weak extremals of some two-dimensional variational problems related to nonlinear elasticity. (English summary) **98i:49041**
Fusco, Nicola *see* **Ambrosio, Luigi; et al., 98j:49051**
Giaquinta, Mariano (*with* Modica, G.; Souček, Jiří) Some regularity properties of locally weakly invertible maps. **98m:49055**
Hamburger, Christoph Partial regularity for minimizers of variational integrals with discontinuous integrands. (English and French summaries) **98f:49039**
Hong, Min-Chun Regularity results for minimizers of certain functionals having non-quadratic growth with obstacles. (English summary) **98e:49093**
Ledyaev, Yu. S. *see* **Clarke, Francis H.; et al., 98d:49047**
Liang, Xi Ting (*with* Wang, Xiangdong) Regularity of solutions to an elliptic variational inequality system. (English summary) **98g:49027**
Lu, De *see* **Shen, Yao Tian, 98a:49060** *and* **98c:49071**
Mizel, Victor J. *see* **Sychev, M. A., 98d:49048**
Modica, G. *see* **Giaquinta, Mariano; et al., 98m:49055**
Pallara, Diego *see* **Ambrosio, Luigi, 98j:49050** *and* **98j:49051**
Passarelli di Napoli, Antonia (*with* Siepe, Francesco) A regularity result for a class of anisotropic systems. (English and Italian summaries) **98j:49052**
Phillips, Daniel *see* **Dougherty, Michael M., 98a:49059**
Roubíček, Tomáš Nonconcentrating generalized Young functionals. (English summary) **98h:49044**
Serëgin, G. A. *see* **Fuchs, Martin², 98i:49041**
Shen, Yao Tian (*with* Lu, De) Regularity of minimizers of quadratic functionals with integral constraints. (Chinese. Chinese summary) **98c:49071**
— (*with* Lu, De) On the regularity of the minimizer of the quadratic functional with integration constraint. (English summary) **98a:49060**
Siepe, Francesco *see* **Passarelli di Napoli, Antonia, 98j:49052**
Souček, Jiří *see* **Giaquinta, Mariano; et al., 98m:49055**
Sychev, M. A. (*with* Mizel, Victor J.) A condition on the value function both necessary and sufficient for full regularity of minimizers of one-dimensional variational problems. (English summary) **98d:49048**
Vinter, Richard B. *see* **Clarke, Francis H.; et al., 98d:49047**
Wang, Xiangdong *see* **Liang, Xi Ting, 98g:49027**

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Acerbi, Emilio (*with* Fonseca, Irene; Fusco, Nicola) Regularity results for equilibria in a variational model for fracture. (English summary) **98j:73100**
Cardaliaguet, Pierre On the regularity of semipermeable surfaces in control theory with application to the optimal exit-time problem. I. (English summary) **98i:49002**
— On the regularity of semipermeable surfaces in control theory with application to the optimal exit-time problem. II. (English summary) **98i:49003**
Cavaliere, Paola (*with* D'Ottavio, A.; Leonetti, Francesco; Musciano, C.) Higher integrability for the gradient of solutions to some nonlinear elliptic systems. (English summary) **98g:35064**
Cellina, Arrigo Minimizing a functional depending on ∇u and on u. (English and French summaries) **98d:49001**
D'Ottavio, A. *see* **Cavaliere, Paola; et al., 98g:35064**
Dougherty, Michael M. Higher gradient integrability of minimizers for a polyconvex case in two dimensions. (English summary) **98f:49004**
Fonseca, Irene *see* **Acerbi, Emilio; et al., 98j:73100**
Fuchs, Martin² (*with* Reuling, Jürgen) A modification of the blowup technique for variational integrals with subquadratic growth. (English summary) **98m:49002**
— (*with* Serëgin, G. A.) Some remarks on non-Newtonian fluids including nonconvex perturbations of the Bingham and Powell-Eyring model for viscoplastic fluids. (English summary) **98j:49013**
Fusco, Nicola *see* **Acerbi, Emilio; et al., 98j:73100**
Grüter, Michael A remark on isolated singularities at the free boundary of harmonic maps. (English summary) **98b:58045**
(Hungerbühler, Norbert) *see* **Simon, Leon M., 98c:58042**
Kovalevskiĭ, A. A. (*with* Nicolosi, Francesco) Boundedness of solutions of variational inequalities with nonlinear degenerated elliptic operators of high order. **98k:35080**
Leonetti, Francesco *see* **Cavaliere, Paola; et al., 98g:35064**
Malý, Jan (*with* Ziemer, William P.) ★ Fine regularity of solutions of elliptic partial differential equations. (English summary) **98h:35080**
Melnik, Roderick V. Nicholas On consistent regularities of control and value functions. (English summary) **98c:49054**
Musciano, C. *see* **Cavaliere, Paola; et al., 98g:35064**
Nicolosi, Francesco *see* **Kovalevskiĭ, A. A., 98k:35080**
Reuling, Jürgen *see* **Fuchs, Martin², 98m:49002**
Ricceri, Biagio More on a variational property of integral functionals. (English summary) **98h:49047**
Sbordone, Carlo Maximal inequalities and applications to regularity problems in the calculus of variations. **98b:35026**
Serëgin, G. A. *see* **Fuchs, Martin², 98j:49013**
Simon, Leon M. ★ Theorems on regularity and singularity of energy minimizing maps. (English summary) **98c:58042**
Yang, Jianfu Regularity of weak solutions to quasilinear elliptic obstacle problems. (English summary) **98i:35075**
Yang, Xiao Ping Variational problems with nonconvex constraints. (Chinese. English and Chinese summaries) **98c:49003**
Zelikin, M. I. One-parameter families of solutions to a class of PDE optimal control problems. (English summary) **98e:49058**
Zhikov, Vasiliĭ V. On some variational problems. (English summary) **98k:49004**
Ziemer, William P. *see* **Malý, Jan, 98h:35080**

49N65 Applications of measurable selections to control theory [see also 28B20, 26E25]

Items with secondary classifications in 49N65

Sun, Yeneng Distributional properties of correspondences on Loeb spaces. (English summary) **98b:28020**

49N99 None of the above, but in this section

Items with secondary classifications in 49N99

Chen, Yui-Bin (*with* Ierardi, Doug) Time-optimal trajectories of a rod in the plane subject to velocity constraints. (English summary) **98m:70006**
Ierardi, Doug *see* **Chen, Yui-Bin, 98m:70006**

49Qxx Manifolds [see also 58Fxx]

49Q05 Minimal surfaces [see also 53A10, 58E12]

Abdulaev, R. Parametrization of a family of minimal surfaces bounded by the broken lines in $\mathbf{R}^3$. (English summary) **98c:49072**
Borouchaki, Houman *see* **Frey, Pascal J., 98j:49053**
Chau, Claire C. Complete minimal hypersurfaces with prescribed asymptotics at infinity. (English summary) **98a:49061**
Chen, Qing² On the total curvature and area growth of minimal surfaces in $\mathbf{R}^n$. (English summary) **98c:49073**
Choe, Jaigyoung Every stationary polyhedral set in $\mathbf{R}^n$ is area minimizing under diffeomorphisms. (English summary) **98e:49094**
David, Guy René (*with* Semmes, Stephen) Surfaces quasiminimales de codimension 1: un morceau de démonstration. [Codimension-1 quasiminimal surfaces: a piece of the proof] **98a:49062**
Delladio, Silvano Minimizing functionals depending on surfaces and their curvatures: a class of variational problems in the setting of generalized Gauss graphs. (English summary) **98b:49029**
Frey, Pascal J. (*with* Borouchaki, Houman) Qualité des maillages de surfaces. (English and French summaries) [Quality of surface meshes] **98j:49053**
Sauvigny, Friedrich Uniqueness of Plateau's problem for certain contours with a one-to-one, nonconvex projection onto a plane. **98c:49074**
Semmes, Stephen *see* **David, Guy René, 98a:49062**
Yamaura, Yoshihiko On a radially symmetric minimal surface with non-empty free boundary. (English summary) (*see* **98c:00012**)

Items with secondary classifications in 49Q05

Baubec, Margarit *see* **Visarion, Viorel, 98h:53019**
Dierkes, Ulrich (*with* Huisken, Gerhard) The N-dimensional analogue of the catenary: prescribed area. (English summary) **98e:58051**
Doan The Hieu On the comass norm of a 3-covector. **98e:53127**

Große-Brauckmann, Karsten Stable constant mean curvature surfaces minimize area. (English summary) **98e:53007**
— (*with* Polthier, Konrad) Compact constant mean curvature surfaces with low genus. (English summary) **98i:53012**
— Gyroids of constant mean curvature. (English summary) **98i:53013**
Hildebrandt, Stefan (*with* Sauvigny, Friedrich) Minimal surfaces in a wedge. I. Asymptotic expansions. (English summary) **98d:58036**
Huisken, Gerhard *see* **Dierkes, Ulrich, 98e:58051**
Kokubu, Masatoshi On minimal surfaces in the real special linear group SL(2, **R**). **98i:53015**
Kuwert, Ernst Weak limits in the free boundary problem for immersions of the disk which minimize a conformally invariant integral. **98b:58038**
Morgan, Frank Compound soap bubbles, shortest networks, and minimal surfaces. (English summary) **98e:53008**
Nowak, Ivo Numerical finiteness results for minimal surfaces in three-dimensional space forms. (English summary) **98m:53014**
Polthier, Konrad *see* **Große-Brauckmann, Karsten, 98i:53012**
Sauvigny, Friedrich *see* **Hildebrandt, Stefan, 98d:58036**
Simon, Leon M. Lectures on singularities of variational problems. **98i:58077**
Souam, Rabah On stability of stationary hypersurfaces for the partitioning problem for balls in space forms. **98a:53096**
Visarion, Viorel (*with* Baubec, Margarit) Some strange properties of minimal surfaces in connection with Plateau's problem. (English summary) **98h:53019**
Weitsman, Allen On the dilatation of univalent planar harmonic mappings. (English summary) **98d:30030**
Wente, Henry C. The Plateau problem for boundary curves with connectors. **98e:53010**
White, Brian Cabell Half of Enneper's surface minimizes area. **98c:51003**
Yang, Chan Woo On the number of the minimal surfaces spanning part of a knot. (English summary) **98c:53011**

49Q10 Optimization of the shape other than minimal surfaces [see also 73K40, 90C90]

Barkatou, Mohammed (*with* Henrot, Antoine) Un résultat d'existence en optimisation de forme en utilisant une propriété géométrique de la normale. (French summary) [An existence result in shape optimization using a geometric property of the normal] **98f:49040**
Batra, R. C. (*with* Liang, X. Q.; Kachroo, P.) Shape control of a nonlinear smart plate. (English summary) (*see* **98d:00024**)
Bedivan, Dana M. Existence of a solution for complete least squares optimal shape problems. (English summary) **98i:49042**
Belov, Sergei Optimization of the shape of a domain in plane boundary value problems of elliptic type. (Russian. Russian summary) **98c:49075**
— (*with* Slugin, S. N.) Necessary conditions of optimality in constrained planar domain optimization. (English summary) **98a:49063**
— (*with* Fujii, Nobuo) Symmetry and sufficient condition of optimality in a domain optimization problem. (English summary) **98i:49043**
Bouchitté, Guy (*with* Buttazzo, Giuseppe; Seppecher, Pierre) Shape optimization solutions via Monge-Kantorovich equation. (English and French summaries) **98i:49044**
Bucur, Dorin (*with* Zolésio, Jean-Paul) Shape analysis of eigenvalues on manifolds. (English summary) **98j:49054**
— (*with* Zolésio, Jean-Paul) Boundary optimization under pseudo curvature constraint. **98j:49055**
Butt, Rizwan The material derivative method for shape optimization problem in electro-chemical machining. (English summary) **98d:49049**
— Optimal shape design of systems governed by variational inequalities. (English summary) **98h:49045**
Buttazzo, Giuseppe (*with* Dal Maso, Gianni; Garroni, Adriana; Malusa, Annalisa) On the relaxed formulation of some shape optimization problems. (English summary) **98e:49095**
— *see also* **Bouchitté, Guy; et al., 98i:49044**
Dal Maso, Gianni *see* **Buttazzo, Giuseppe; et al., 98e:49095**
Delfour, Michel C. (*with* Zolésio, Jean-Paul) On the design and control of systems governed by differential equations on submanifolds. (English summary) **98c:49076**
Desaint, Fabrice (*with* Zolésio, Jean-Paul) Manifold derivative in the Laplace-Beltrami equation. (English summary) **98k:49053**
Dziri, Raja (*with* Zolésio, Jean-Paul) Shape-sensitivity analysis for nonlinear heat convection. (English summary) **98a:49064**
Fujii, Nobuo *see* **Belov, Sergei, 98i:49043**
Gao, Hang A class of domain optimization problems. (Chinese. Chinese summary) **98j:49056**
Garroni, Adriana *see* **Buttazzo, Giuseppe; et al., 98e:49095**
Guillaume, Philippe (*with* Masmoudi, Mohamed) Sensitivity computation and automatic differentiation. (English summary) **98c:49077**
Habbal, Abderrahmane Some basics in optimal control of domains. (English summary) **98i:49045**
Henrot, Antoine How to prove symmetry in shape optimization problems? (English summary) **98d:49050**
— *see also* **Barkatou, Mohammed, 98f:49040**
Kachroo, P. *see* **Batra, R. C.; et al., (98d:00024)**
Kandoba, I. N. On a numerical solution of domain optimization problems for a class of elliptic systems. (Russian. Russian summary) **98a:49065**
Laumea, Manfred (*with* Sachs, Ekkehard W.) Concepts of Newton and quasi-Newton methods for optimal shape design problems. (English summary) **98e:49096**
Liang, X. Q. *see* **Batra, R. C.; et al., (98d:00024)**
Malnik, I. F. On stability in a theorem on an estimate for the length of a descent curve. (Russian. Russian summary) **98d:49051**
Malusa, Annalisa *see* **Buttazzo, Giuseppe; et al., 98e:49095**
Masmoudi, Mohamed *see* **Guillaume, Philippe, 98c:49077**
von der Mosel, Heiko Nonexistence results for extremals of curvature functionals. (English summary) **98m:49056**
Myslinski, A. *see* **Rousselet, Bernard; et al., 98g:49029**
Piekarski, J. *see* **Rousselet, Bernard; et al., 98g:49029**
Roche, Jean R. (*with* Sokołowski, Jan) Numerical methods for shape identification problems. (English summary) **98g:49028**
Rousselet, Bernard (*with* Piekarski, J.; Myslinski, A.) Shape optimization of hyperelastic rod. (English summary) **98g:49029**
— Introduction to shape sensitivity: three-dimensional and surface systems. (English summary) **98f:49041**
Sachs, Ekkehard W. *see* **Laumen, Manfred, 98e:49096**
Seppecher, Pierre *see* **Bouchitté, Guy; et al., 98i:49044**
Slugin, S. N. *see* **Belov, Sergei, 98a:49063**
Sokołowski, Jan *see* **Roche, Jean R., 98g:49028**
Tartar, Luc Remarks on the homogenization method in optimal design methods. (English summary) **98g:49030**
Toivanen, Jari ★ Fictitious domain method applied to shape optimization. **98k:49054**
Villaggio, Piero (*with* Zolésio, Jean-Paul) Suboptimal shape of a plate stretched by planar forces. (English summary) **98i:49046**
Żochowski, Antoni Special methods for shape optimization problems. (English summary) **98d:49052**
Zolésio, Jean-Paul *see* **Dziri, Raja, 98a:49064; Delfour, Michel C., 98c:49076; Villaggio, Piero, 98i:49046; Bucur, Dorin, 98j:49054; 98j:49055** *and* **Desaint, Fabrice, 98k:49053**

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Abdel-All, N. H. (*with* Hussien, Rawya A.) Variation of curvatures and stability of hypersurfaces. (English summary) **98i:53082**
Abushov, O. G. (*with* Lapin, A. V.) Solution of the problem of filtration in a dam by the shape optimization method of optimizing: grid approximation. (Russian) **98b:76066**
Alberti, Giovanni (*with* Mantegazza, Carlo) A note on the theory of SBV functions. (Italian summary) **98h:49014**
Allaire, Grégoire The homogenization method for topology and shape optimization. (English summary) **98j:73008**
Alvarez-Vázquez, Lino J. (*with* Viaño Rey, Juan M.) Modeling and optimization of non-symmetric plates. (English and French summaries) **98k:73040**
Antonic, Nenad (*with* Balenovic, Neven) On a variational problem related to a model of black and white printing. (English summary)
Balenovic, Neven *see* **Antonic, Nenad**
Berg, Jordan M. *see* **Smith, Linda D.; et al., (98b:90003)**
Borouchaki, Houman *see* **Frey, Pascal J., 98j:49053**
Brakke, Kenneth A. The surface evolver and the stability of liquid surfaces. (English summary) **98a:53009**
Butt, Rizwan Design problem solved by optimal control theory. (English summary) **98b:49028**
Buttazzo, Giuseppe A general theory of relaxed controls and application to shape optimization problems. **98a:49022**
Cao, Jianguo An isoperimetric comparison theorem for PL-manifolds of non-positive curvature. (English summary) **98a:53061**
Casarino, Valentina (*with* Percivale, Danilo) A variational model for nonlinear elastic plates. (English summary) **98c:73032**
Chenais, D. (*with* Mascarenhas, M. L.; Trabucho, L.) Optimization of nonperiodic homogenized microstructures. (French summary) **98i:73041**
(Cherkaev, A. V.) *see* **Topics in the mathematical modelling of composite materials, 98i:73001**
Chleboun, Jan *see* **Hlaváček, Ivan, 98j:65015**
Delfour, Michel C. Méthodes intrinsèques pour le contrôle et l'optimisation des coques minces. (French summary) [Intrinsic methods for the control and optimization of thin shells] **98g:73025**
— (*with* Zolésio, Jean-Paul) On a geometrical bang-bang principle for some compliance problems. (English summary) **98c:49014**
Desaint, Fabrice (*with* Zolésio, Jean-Paul) Shape boundary derivative for an elastic membrane. **98m:73058**
Egorov, Yurii Vladimirovich (*with* Kondrat'ev, Vladimir) On the optimal shape of a column. (Russian) **98c:73060**
Frey, Pascal J. (*with* Borouchaki, Houman) Qualité des maillages de surfaces. (English and French summaries) [Quality of surface meshes] **98j:49053**
Gusev, E. L. On a priori restriction of an admissible set of materials in problems of the optimal design of nonhomogeneous structures from a discrete set of materials under wave actions. (Russian) **98k:73052**
Haslinger, J. (*with* Mäkinen, R. A. E.) Shape optimization of materially non-linear bodies in contact. (English summary) **98c:73061**
Hlaváček, Ivan (*with* Lovíšek, J.) Optimal design of an elastic plate with unilateral elastic foundation and rigid supports, using the Reissner-Mindlin plate model. I. Continuous problems. (English and German summaries) **98g:73026**
— (*with* Lovíšek, J.) Optimal design of an elastic plate with unilateral elastic foundation and rigid supports, using the Reissner-Mindlin plate model. II. Approximate problems. (English and German summaries) **98g:73027**
— (*with* Chleboun, Jan) Shape design sensitivity formulae approximated by means of a recovered gradient method. (English summary) **98j:65015**
Hussien, Rawya A. *see* **Abdel-All, N. H., 98i:53082**
Kane, Couro (*with* Schoenauer, Marc) Topological optimum design using genetic algorithms. (English summary) (*see* **98b:49004**)
Kärkkäinen, Kari (*with* Tiihonen, Timo) Trial methods for nonlinear Bernoulli problem. (*see* **98e:00021**)
(Kohn, Robert V.) *see* **Topics in the mathematical modelling of composite materials, 98i:73001**
Kondrat'ev, Vladimir *see* **Egorov, Yurii Vladimirovich, 98c:73060**
Krasnoshchek, N. V. Optimal control of the shape of curvilinear cuts in an elastic plate. (Russian. English and Russian summaries) **98d:73050**
Kwak, Byung Man BIE-based shape sensitivity analysis and applications. (English summary) **98i:65109**
Lapin, A. V. *see* **Abushov, O. G., 98b:76066**

Logan, B. F. (*with* Shepp, Larry A.) A variational problem for random Young tableaux. (English summary) **98e:05108**
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Percivale, Danilo *see* **Casarino, Valentina, 98c:73032**
Ringertz, Ulf Torbjörn Large-scale structural design optimization. (English summary) (*see* **98d:90008**)
Schoenauer, Marc *see* **Kane, Couro, (98b:49004)**
Shepp, Larry A. *see* **Logan, B. F., 98e:05108**
Smith, Linda D. (*with* Berg, Jordan M.; Malas, James C., III) Optimal die shape and ram velocity design for metal forging. (English summary) (*see* **98b:90003**)
(Sokołowski, Jan) *see* **Shape optimization and scientific computations, 98b:49004**
Spillers, W. R. (*with* Myers, M. K.) The Tadjbakhsh-Keller problem. (English and Farsi summaries) **98e:73098**
Tiihonen, Timo Shape optimization and trial methods for free boundary problems. (English and French summaries) **98m:35231**
— *see also* **Kärkkäinen, Kari, (98e:00021)**
Trabucho, L. *see* **Chenais, D.; et al., 98i:73041**
Viaño Rey, Juan M. *see* **Alvarez-Vázquez, Lino J., 98k:73040**
Wang, Changyou Bubble phenomena of certain Palais-Smale sequences from surfaces to general targets. (English summary) **98h:58053**
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School:
Shape Optimal Design, Theory, Application and Software ★ Shape optimization and scientific computations. **98b:49004**
Shape optimization and scientific computations ★ Shape optimization and scientific computations. **98b:49004**
Topics in the mathematical modelling of composite materials ★ Topics in the mathematical modelling of composite materials. **98i:73001**
Warsaw ★ Shape optimization and scientific computations. **98b:49004**

49Q12 Sensitivity analysis

Desaint, Fabrice (*with* Zolésio, Jean-Paul) Dérivation de forme dans les problèmes elliptiques tangentiels. (English and French summaries) [Shape derivative for tangential elliptic problems] **98a:49066**
Ohtsuka, Kohji Design sensitivity analysis by generalized J-integral for the anti-plane. (*see* **98i:00036**)
Zolésio, Jean-Paul *see* **Desaint, Fabrice, 98a:49066**

49Q15 Geometric measure and integration theory, integral and normal currents [see also 28A75, 32C30, 58A25, 58C35]

Bellettini, Giovanni (*with* Paolini, M.; Venturini, Sergio) Some results on surface measures in calculus of variations. (English summary) **98e:49097**
Delfour, Michel C. (*with* Mghazli, Zoubida; Zolésio, Jean-Paul) Computation of shape gradients for mixed finite element formulation. (English summary) **98f:49042**
Dems, K. Shape and material parameters sensitivity analysis in quasi-harmonic problems. (English summary) **98d:49053**
Desaint, Fabrice (*with* Zolésio, Jean-Paul) Shape derivative for the Laplace-Beltrami equation. (English summary) **98d:49054**
Duzaar, Frank (*with* Fuchs, Martin[2]) Existence of area minimizing tangent cones of integral currents with prescribed mean curvature. (English summary) **98c:49078**
Fuchs, Martin[2] *see* **Duzaar, Frank, 98c:49078**
Garstecki, Andrzej (*with* Glema, Adam) Pontriagin method versus nonlinear programming in applications to structural optimization. (English summary) (*see* **98b:49004**)
Giaquinta, Mariano (*with* Modica, G.; Souček, Jiří) Composition of weak diffeomorphisms. **98m:49057**
Glema, Adam *see* **Garstecki, Andrzej, (98b:49004)**
Guido, Y. (*with* Zolésio, Jean-Paul) Shape Hessian for a nondifferentiable variational free boundary problem. (English summary) **98e:49098**
Jones, Peter Wilcox (*with* Katz, Nets Hawk; Vargas, Ana M.) Checkerboards, Lipschitz functions and uniform rectifiability. **98j:49057**
Katz, Nets Hawk *see* **Jones, Peter Wilcox; et al., 98j:49057**
Leont'ev, A. N. The problem on the shape of a pile of granular substance. (English summary) **98h:49046**
Mghazli, Zoubida *see* **Delfour, Michel C.; et al., 98f:49042**
Modica, G. *see* **Giaquinta, Mariano; et al., 98m:49057**
Morgan, Frank An isoperimetric inequality for the thread problem. (English summary) **98e:49099**
Paolini, M. *see* **Bellettini, Giovanni; et al., 98e:49097**
Ricceri, Biagio On a variational property of integral functionals and related conjectures. **98d:49055**
— More on a variational property of integral functionals. (English summary) **98h:49047**
Souček, Jiří *see* **Giaquinta, Mariano; et al., 98m:49057**
Vargas, Ana M. *see* **Jones, Peter Wilcox; et al., 98j:49057**
Venturini, Sergio *see* **Bellettini, Giovanni; et al., 98e:49097**
Zolésio, Jean-Paul *see* **Desaint, Fabrice, 98d:49054**; **Guido, Y., 98e:49098** *and* **Delfour, Michel C.; et al., 98f:49042**

Items with secondary classifications in 49Q15

Achtziger, W. Topology optimization of discrete structures: an introduction in view of computational and nonsmooth aspects. (English summary) **98i:73040**
Allaire, Grégoire Relaxation of structural optimization problems by homogenization. (*see* **98d:00025**)
— (*with* Bonnetier, Eric; Francfort, Gilles; Jouve, François) Shape optimization by the homogenization method. (English summary) **98a:73046**
Amirat, Youcef (*with* Simon, Jacques) Riblets and drag minimization. (English summary) **98h:76025**
Bonnetier, Eric *see* **Allaire, Grégoire; et al., 98a:73046**
Bramaud du Boucheron-Marinaux, Bernadette Existence et domaine de sous-analyticité de la tranche d'une chaîne sous-analytique. (English and French summaries) [Existence and domain of subanalyticity of the slice of a subanalytic chain] **98h:32008**
Chenais, D. (*with* Mascarenhas, M. L.; Trabucho, L.) Optimization of quasi-periodical perforated structures. (English summary) **98j:73062**
Cheng, Qing-Ming (*with* Shiohama, Katsuhiro) Non-existence of stable currents. II. **98b:53069**
Cinquini, C. (*with* Lombardi, Marco) Anti-optimization technique to include uncertainties in structural optimization problems. (English summary) (*see* **98b:49004**)
Delladio, Silvano Minimizing functionals depending on surfaces and their curvatures: a class of variational problems in the setting of generalized Gauss graphs. (English summary) **98b:49029**
Dziri, Raja (*with* Zolésio, Jean-Paul) Shape existence in Navier-Stokes flow with heat convection. **98m:35155**
Francfort, Gilles *see* **Allaire, Grégoire; et al., 98a:73046**
Jouve, François *see* **Allaire, Grégoire; et al., 98a:73046**
Lombardi, Marco *see* **Cinquini, C., (98b:49004)**
Mascarenhas, M. L. *see* **Chenais, D.; et al., 98j:73062**
Rousselet, Bernard Introduction to shape sensitivity: three-dimensional and surface systems. (English summary) **98f:49041**
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49Q20 Variational problems in a geometric measure-theoretic setting

Ambrosio, Luigi (*with* Coscia, Alessandra; Dal Maso, Gianni) Fine properties of functions with bounded deformation. (English summary) **98m:49058**
Balder, Erik J. Consequences of denseness of Dirac Young measures. **98h:49048**
Baldo, Sisto (*with* Orlandi, Giandomenico) Cycles of least mass in a Riemannian manifold, described through the "phase transition" energy of the sections of a line bundle. **98j:49058**
Bellettini, Giovanni (*with* Novaga, Matteo) Barriers for a class of geometric evolution problems. (English and Italian summaries) **98i:49047**
Bernatzki, Felicia On the existence and regularity of mass-minimizing currents with an elastic boundary. (English summary) **98k:49055**
— Mass-minimizing currents with an elastic boundary. **98e:49100**
Braides, Andréa (*with* Chiadò Piat, Valeria) Integral representation results for functionals defined on $SBV(\Omega;\mathbf{R}^m)$. (English summary) **98c:49079**
— (*with* Dal Maso, Gianni) Non-local approximation of the Mumford-Shah functional. (English summary) **98c:49080**
Chiadò Piat, Valeria *see* **Braides, Andréa, 98c:49079**
Coscia, Alessandra *see* **Ambrosio, Luigi; et al., 98m:49058**
Dal Maso, Gianni *see* **Braides, Andréa, 98c:49080** *and* **Ambrosio, Luigi; et al., 98m:49058**
David, Guy René (*with* Semmes, Stephen) Uniform rectifiability and singular sets. (English and French summaries) **98a:49067**
— (*with* Semmes, Stephen) On the singular sets of minimizers of the Mumford-Shah functional. **98a:49068**
Delladio, Silvano Special generalized Gauss graphs and their application to minimization of functionals involving curvatures. (English summary) **98f:49043**
Duzaar, Frank (*with* Steffen, Klaus) Existence of hypersurfaces with prescribed mean curvature in Riemannian manifolds. (English summary) **98h:49049**
Dziri, Raja (*with* Zolésio, Jean-Paul) Interface minimisant l'énergie dans un écoulement stationnaire de Navier-Stokes. (English and French summaries) [Interface minimizing the energy of a stationary Navier-Stokes flow] **98e:49101**
Gangbo, Wilfrid (*with* McCann, Robert J.) The geometry of optimal transportation. **98e:49102**
Giaquinta, Mariano Cartesian currents in the calculus of variations. (*see* **98f:35004**)
Levin, Vladimir L. A superlinear multifunction arising in connection with mass transfer problems. (English summary) **98e:49103**
Mantegazza, Carlo Curvature varifolds with boundary. (English summary) **98e:49104**
McCann, Robert J. *see* **Gangbo, Wilfrid, 98e:49102**
Mosco, Umberto (*with* Notarantonio, Lino) Homogeneous fractal spaces. **98a:49069**
Notarantonio, Lino *see* **Mosco, Umberto, 98a:49069**
Novaga, Matteo *see* **Bellettini, Giovanni, 98i:49047**
Orlandi, Giandomenico *see* **Baldo, Sisto, 98j:49058**
Ossanna, Elisabetta SBV functions over a rectifiable current and a compactness theorem. (English summary) **98a:49070**
Rzymowski, Witold Convex extension preserving Lipschitz constant. (English summary) **98e:49105**
Semmes, Stephen *see* **David, Guy René, 98a:49067** *and* **98a:49068**
Solimini, Sergio Simplified excision techniques for free disontinuity problems in several variables. (English summary) **98k:49056**
Steffen, Klaus *see* **Duzaar, Frank, 98h:49049**
Struwe, Michael Sattelpunkte oder Variationsprinzipien in Geometrie und Mechanik. (German summary) [Saddle points on variational principles in geometry and mechanics] **98d:49056**
Zolésio, Jean-Paul *see* **Dziri, Raja, 98e:49101**

Items with secondary classifications in 49Q20

Acerbi, Emilio (*with* Fonseca, Irene; Fusco, Nicola) Regularity results for equilibria in a

variational model for fracture. (English summary) **98j:73100**

Alouges, François (*with* Ghidaglia, J.-M.) Minimizing Oseen-Frank energy for nematic liquid crystals: algorithms and numerical results. (English and French summaries) **98k:58064**

Alvino, Angelo (*with* Ferone, Vincenzo; Trombetti, Guido; Lions, Pierre-Louis) Convex symmetrization and applications. (English and French summaries) **98d:35068**

Bellettini, Giovanni Variational approximation of functionals with curvatures and related properties. (English summary) **98k:49020**

Benci, Vieri (*with* Fortunato, Donato) Geodesics on space-time manifolds: a variational approach. **98g:58027**

Bianchini, Stefano (*with* Cerf, Raphaël; Mariconda, Carlo) Two-dimensional zonoids and Chebyshev measures. (English summary) **98e:28012**

Bobkov, S. G. (*with* Houdré, Christian) Some connections between isoperimetric and Sobolev-type inequalities. (English summary) **98b:46038**

Borggaard, Jeff (*with* Burns, John A.) A PDE sensitivity equation method for optimal aerodynamic design. (English summary) **98i:76047**

Burchard, A. Steiner symmetrization is continuous in $W^{1,p}$. (English summary) **98m:46043**

Burns, John A. *see* **Borggaard, Jeff, 98i:76047**

Cerf, Raphaël (*with* Mariconda, Carlo) Oriented measures. (English summary) **98f:28012**
— *see also* **Bianchini, Stefano; et al., 98e:28012**

Chambolle, Antonin (*with* Doveri, Francesco) Minimizing movements of the Mumford and Shah energy. (English summary) **98g:35091**

Cheng, Qing-Ming (*with* Shiohama, Katsuhiro) Non-existence of stable currents. II. **98b:53069**

Chentsov, A. G. Asymptotic attainability with perturbation of integral constraints in an abstract control problem. I. (Russian) **98a:93005**
— Asymptotic attainability with perturbation of integral constraints in an abstract control problem. II. (Russian) **98a:93006**
— ★ Finitely additive measures and relaxations of extremal problems. **98a:49003**

Contreras-Barandiarán, Gonzalo (*with* Delgado, Jorge; Iturriaga, Renato) Lagrangian flows: the dynamics of globally minimizing orbits. II. (English summary) **98i:58093**

De Cecco, Giuseppe (*with* Palmieri, Giuliana) p-energy of a curve on a set and on a Finslerian LIP-manifold. (Italian summary) **98e:58047**

Delgado, Jorge *see* **Contreras-Barandiarán, Gonzalo; et al., 98i:58093**

Doveri, Francesco *see* **Chambolle, Antonin, 98g:35091**

Duzaar, Frank (*with* Fuchs, Martin[2]) Existence of area minimizing tangent cones of integral currents with prescribed mean curvature. (English summary) **98c:49078**
— (*with* Steffen, Klaus) The Plateau problem for parametric surfaces with prescribed mean curvature. (English summary) **98d:53011**

Fang, Yi (*with* Wei, Fusheng) On uniqueness of Riemann's examples. (English summary) **98j:53010**

Ferone, Vincenzo *see* **Alvino, Angelo; et al., 98d:35068**

Fonseca, Irene *see* **Acerbi, Emilio; et al., 98j:73100**

Fortunato, Donato *see* **Benci, Vieri, 98g:58027**

Fuchs, Martin[2] *see* **Duzaar, Frank, 98c:49078**

Fusco, Nicola *see* **Acerbi, Emilio; et al., 98j:73100**

Gasiński, Leszek On capacity and some [of] its applications. (English summary) **98h:31009**

Ghidaglia, J.-M. *see* **Alouges, François, 98k:58064**

Houdré, Christian *see* **Bobkov, S. G., 98b:46038**

Iturriaga, Renato *see* **Contreras-Barandiarán, Gonzalo; et al., 98i:58093**

Jezequel, L. *see* **Remillat, C., (98g:73001)**

Kawohl, Bernhard The opaque square and the opaque circle. **98f:52006**

Kočvara, Michal (*with* Outrata, Jiří V.) On the solution of optimum design problems with variational inequalities. (English summary) (*see* **98a:90009**)

Lawlor, Gary (*with* Morgan, Frank) Curvy slicing proves that triple junctions locally minimize area. (English summary) **98a:53012**

Lefter, Cătălin (*with* Rădulescu, Vicenţiu D.) Asymptotics for the minimizers of the Ginzburg-Landau energy with vanishing weight. (English summary) **98i:58070**

Lelko, S. G. Isoperimetric extremals of a turn on surfaces in the Euclidean space E^3. (Russian) **98a:58038**

Lin, Fang Hua Gradient estimates and blow-up analysis for stationary harmonic maps. (English and French summaries) **98a:58052**

Lions, Pierre-Louis *see* **Alvino, Angelo; et al., 98d:35068**

López, Francisco J. (*with* Ritoré, Manuel; Wei, Fusheng) A characterization of Riemann's minimal surfaces. (English summary) **98k:53011**

Lurie, Konstantin A. (*with* Simkina, T. Y.) Load characteristics of a MHD channel in the case of optimal distribution of the resistivity of the working medium. (*see* **98i:73001**)

(Lutsuk, A. V.) *see* **Chentsov, A. G., 98a:49003**

Mañé, Ricardo Lagrangian flows: the dynamics of globally minimizing orbits. (English summary) **98i:58092**

Mariconda, Carlo *see* **Bianchini, Stefano; et al., 98e:28012** *and* **Cerf, Raphaël, 98f:28012**

Morgan, Frank Lowersemicontinuity of energy clusters. (English summary) **98e:49033**
— *see also* **Lawlor, Gary, 98a:53012**

Nishiura, Yasumasa *see* **Ohnishi, Isamu, (98f:00031)**

Ohnishi, Isamu (*with* Nishiura, Yasumasa) On global minimizers for a variational problem with non-local effect related to micro-phase separation. (*see* **98f:00031**)

Outrata, Jiří V. *see* **Kočvara, Michal, (98a:90009)**

Palmieri, Giuliana *see* **De Cecco, Giuseppe, 98e:58047**

Pedregal, Pablo ★ Parametrized measures and variational principles. (English summary) **98e:49001**

Rădulescu, Vicenţiu D. *see* **Lefter, Cătălin, 98i:58070**

Remillat, C. (*with* Jezequel, L.) Application d'une méthode par critère d'optimalité à l'optimisation de revêtements amortissants. (French summary) [Application of an optimality criterion method to the optimization of damping layers] (*see* **98g:73001**)

Ren, Xiaofeng (*with* Winter, Matthias) Young measures in a nonlocal phase transition problem. (English summary) **98d:73012**

Ritoré, Manuel *see* **López, Francisco J.; et al., 98k:53011**

Roubíček, Tomáš ★ Relaxation in optimization theory and variational calculus. (English summary) **98e:49002**

Sbordone, Carlo Grand Sobolev spaces and their applications to variational problems. (English summary) **98k:46055**

Shiohama, Katsuhiro *see* **Cheng, Qing-Ming, 98b:53069**

Simkina, T. Y. *see* **Lurie, Konstantin A., (98i:73001)**

Steffen, Klaus *see* **Duzaar, Frank, 98d:53011**

Trombetti, Guido *see* **Alvino, Angelo; et al., 98d:35068**

Wei, Fusheng *see* **Fang, Yi, 98j:53010** *and* **López, Francisco J.; et al., 98k:53011**

Winter, Matthias *see* **Ren, Xiaofeng, 98d:73012**

49Q25 Surface area

Faina, Loris The parametric Weierstrass integral over a BV curve as a length functional. (English summary) **98i:49048**

Mucci, Domenico Graphs of finite mass which cannot be approximated by smooth graphs with equibounded area. (English summary) **98m:49059**

Items with secondary classifications in 49Q25

Große-Brauckmann, Karsten Stable constant mean curvature surfaces minimize area. (English summary) **98e:53007**

49Q99 None of the above, but in this section

Items with secondary classifications in 49Q99

Buttazzo, Giuseppe (*with* Zeine, O. M.) Un problème d'optimisation de plaques. (English and French summaries) [An optimization problem for plates] **98b:73028**

Conca, Carlos (*with* Davila, Juan) Optimal bounds for mixtures of infinitely many materials. (English summary) **98j:73063**

Davila, Juan *see* **Conca, Carlos, 98j:73063**

Deckelnick, Klaus Weak solutions of the curve shortening flow. **98j:35110**

Fardoun, Ali On equivariant p-harmonic maps. (English and French summaries) **98m:58027**

Zeine, O. M. *see* **Buttazzo, Giuseppe, 98b:73028**

49Rxx Variational methods {For eigenvalues of operators, see 47A75.}

49R05 Variational approach to eigenvalues

Sharma, Chandra Shekhar Certain problems in the classical calculus of variations as simple examples in the Fréchet calculus on a normed space. (English summary)

Items with secondary classifications in 49R05

Bandle, Catherine (*with* Flucher, M.) Applications of harmonic transplantation to variational problems. **98c:31007**

Belgacem, Fethi ★ Elliptic boundary value problems with indefinite weights: variational formulations of the principal eigenvalue and applications. (English summary) **98k:35026**

Brüning, Erwin A. K. Eigenvalue problems for global quasilinear partial differential operators. (English summary) **98f:35024**

Davini, Cesare Note on a parameter lumping in the vibrations of elastic beams. (English and Italian summaries) **98i:73021**

Falsaperla, P. (*with* Fonte, G.) Two methods for determining upper and lower bounds to the eigenvalues of non-semibounded self-adjoint operators. (English summary) **98h:47027**

Flucher, M. *see* **Bandle, Catherine, 98c:31007**

Fonte, G. *see* **Falsaperla, P., 98h:47027**

Griniv, R. O. (*with* Mel′nik, Taras Anatol′evich) On a singular Rayleigh functional. (Russian) **98c:47016**

Kosowski, Przemysław A simple proof of the spectral continuity of the Sturm-Liouville problem. (English summary) **98c:34039**

Mel′nik, Taras Anatol′evich *see* **Griniv, R. O., 98c:47016**

Motreanu, Dumitru (*with* Panagiotopoulos, P. D.) Double eigenvalue problems for hemivariational inequalities. (English summary) **98m:49022**

Panagiotopoulos, P. D. *see* **Motreanu, Dumitru, 98m:49022**

Prodi, Giovanni Dependence of the eigenvalues of the Laplace operator on the domain. (Italian. English summary) **98g:35149**

49R10 Rayleigh-Ritz methods

Items with secondary classifications in 49R10

Onanov, G. G. (*with* Tsvetkov, Evgeniĭ L.) On the minimum of the energy functional with respect to functions with deviating argument in a stationary problem of elasticity theory. (English summary) **98a:73021**

Tsvetkov, Evgeniĭ L. *see* **Onanov, G. G., 98a:73021**

49R15 Weinstein and Aronszajn methods, intermediate problems

Lee, Gyou Bong Convergence rate for lower bounds to self-adjoint operators. **98a:49071**

49R20 Linear operators in Hilbert spaces

Items with secondary classifications in 49R20

Malashok, L. A. A variational-iterative method for solving linear equations with K-positive operators. (Ukrainian. English summary) **98a:65076**

49S05 Variational principles of physics

Items with secondary classifications in 49S05

Aftalion, Amandine On the minimizers of the Ginzburg-Landau energy for high kappa: the one-dimensional case. (English summary) **98m:82075**

Bhattacharya, Kaushik (*with* Kohn, Robert V.) Elastic energy minimization and the recoverable strains of polycrystalline shape-memory materials. (English summary) **98j:73025**

Bishaev, A. M. (*with* Rykov, V. A.) Application of variational principles to the computation of the slip coefficient of a gas. (Russian. Russian summary) **98d:76147**

Christov, Christo I. (*with* Marinov, Tchavdar T.) Method of variational imbedding for the inverse problem of boundary-layer thickness identification. (English summary) **98j:76117**

Chudnovsky, A. (*with* Preston, Serge) Geometrical modeling of material aging. **98a:73002**

Grigore, D. R. On an order reduction theorem in the Lagrangian formalism. (English summary) **98a:58058**

Kohn, Robert V. *see* **Bhattacharya, Kaushik**, **98j:73025**

Lukovskiĭ, I. A. (*with* Timokha, A. N.) ★ Вариационные методы в нелинейных задачах динамики ограниченного объема жидкости. (Russian. English, Russian and Ukrainian summaries) [Variational methods in nonlinear problems of the dynamics of a bounded volume of fluid] **98d:76001**

Marinov, Tchavdar T. *see* **Christov, Christo I.**, **98j:76117**

Osmolovskiĭ, V. G. ★ Линейные и нелинейные возмущения оператора div. (Russian. Russian summary) [Linear and nonlinear perturbations of the operator div] **98k:35018**

— ★ Linear and nonlinear perturbations of the operator div. (English summary) **98a:35014**

Pedregal, Pablo Nonlocal variational principles. **98m:49033**

Preston, Serge *see* **Chudnovsky, A.**, **98a:73002**

(Rozhkovskaya, Tamara) *see* **Osmolovskiĭ, V. G.**, **98a:35014**

Rykov, V. A. *see* **Bishaev, A. M.**, **98d:76147**

Timokha, A. N. *see* **Lukovskiĭ, I. A.**, **98d:76001**

51–XX Geometry {For algebraic geometry, see 14–XX.}

51–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Neutsch, Wolfram ★ Coordinates. **98c:51001**

51–01 Instructional exposition (textbooks, tutorial papers, etc.)

Coxeter, Harold Scott MacDonald (*with* Greitzer, S. L.) ★ Redécouvrons la géométrie. (French) [Geometry revisited] **98c:51002**
Gabriel, Peter ★ Matrizen, Geometrie, lineare Algebra. (German. German summary) [Matrices, geometry, linear algebra] **98j:51001**
Gay, David A. ★ Geometry by discovery. (English summary) **98f:51001**
Greitzer, S. L. *see* **Coxeter, Harold Scott MacDonald, 98c:51002**
Henle, Michael ★ Modern geometries. **98e:51001**
(Marchand, R.) *see* **Coxeter, Harold Scott MacDonald, 98c:51002**
Mneimné, Rached ★ Éléments de géométrie. (French. French summary) [Elements of geometry] **98f:51002**
Villani, Vinicio Geometry at primary and secondary schools. (Slovenian. English and Slovenian summaries)
Zieschang, Heiner ★ Lineare Algebra und Geometrie. (German) [Linear algebra and geometry] **98j:51002**

Items with secondary classifications in 51–01

Chang, Gengzhe (*with* Sederberg, Thomas W.) ★ Over and over again. (English summary) **98i:00001**
Martin, George E. ★ Geometric constructions. (English summary) **98j:51032**
Sederberg, Thomas W. *see* **Chang, Gengzhe, 98i:00001**
Shibuya, Ken-ichi *see* **Yamaguti, Kiyosi, 98k:51035**
Stillwell, John ★ Numbers and geometry. (English summary) **98i:00002**
Yamaguti, Kiyosi (*with* Shibuya, Ken-ichi) Geometric constructions of imaginary intersections of the graph of quadratic function passing through some given points and the x-axis. (English summary) **98k:51035**

51–02 Research exposition (monographs, survey articles)

Artin, Emil ★ Algèbre géométrique. (French) [Geometric algebra] **98b:51001**
(Hua, Luo Geng) *see* **Wan, Zhe-xian, 98a:51001**
(Julia, G.) *see* **Artin, Emil, 98b:51001**
Kapur, J. N. ★ Transformation geometry. (English summary) **98m:51001**
(Lazard, M.) *see* **Artin, Emil, 98b:51001**
Schmidt, Stefan E. ★ Grundlegungen zu einer allgemeinen affinen Geometrie. (German. German summary) [Foundations for a general affine geometry] **98j:51003**
Wan, Zhe-xian ★ Geometry of matrices. (English summary) **98a:51001**

Items with secondary classifications in 51–02

Erdős, Paul[1] Some unsolved problems. (*see* **98d:00027**)
Rosenfeld, Boris A. ★ Geometry of Lie groups. (English summary) **98i:53002**

Items listed otherwise than by author

Problems:
Combinatorics, geometry and probability *see* **Erdős, Paul[1]**, (**98d:00027**)

51–03 Historical (must also be assigned at least one classification number from Section 01)

Beutelspacher, Albrecht Some of Giuseppe Tallini's papers on Galois geometries. **98k:51001**
Bichara, Alessandro Some papers by Tallini on Grassmann spaces.
Ehrlich, Philip From completeness to Archimedean completeness. An essay in the foundations of Euclidean geometry. **98f:51003**
Faina, Giorgio Complete arcs and caps in some papers of Giuseppe Tallini and walking with Giuseppe Tallini along the streets of "Augusta Perusia".
Hansen, Vagn Lundsgaard The dawn of non-Euclidean geometry. (English summary) **98h:51001**
(Tallini, Giuseppe) *see* **Beutelspacher, Albrecht, 98k:51001**; **Bichara, Alessandro** *and* **Faina, Giorgio**

Items with secondary classifications in 51–03

Bkouche, Rudolphe Desargues au XIXe siècle: l'influence d'un livre non lu. [Desargues in the XIXth century: the influence of an unread book] (*see* **98b:01001**)
(Bolyai, János) *see* **Montesinos-Amilibia, José María, 98g:01043**
Ceccherini, Pier Vittorio Giuseppe Tallini. A view on some of his papers and remembering the first time that I met Giuseppe.
(Cooke, Roger L.) *see* **Laptev, B. L.; et al., 98m:01017**
(Desargues, Girard) *see* **Le Goff, Jean-Pierre, 98d:01016** *and* **Bkouche, Rudolphe, (98b:01001)**
Dou Masdexexàs, Albert Origins of non-Euclidean geometry: Saccheri, Lambert and Taurinus. (Spanish) **98g:01038**
(Gauss, Carl Friedrich) *see* **Zormbala, Konstantina, 98a:01013** *and* **Montesinos-Amilibia, José María, 98g:01043**
Grauert, Hans Die Axiome der Elementargeometrie und die griechischen Theoreme. (German summary) [The axioms of elementary geometry and the Greek theorems]
(Grootendorst, A. W.) *see* **de Witt, Jan, 98m:01008**
Kahle, Dietrich Zur Rolle des Erlanger Programms im Geometrieunterricht. (German summary) [On the role of the Erlangen Program in the teaching of geometry]
Karzel, Helmut Survey on the papers and personal memories of Giuseppe Tallini. **98k:01032**
(Kolmogorov, A. N.) *see* **Laptev, B. L.; et al., 98m:01017**
(Lambert, Johann Heinrich) *see* **Dou Masdexexàs, Albert, 98g:01038**
Laptev, B. L. (*with* Rosenfeld, Boris A.; Markushevich, A. I.) ★ Mathematics of the 19th century. (English summary) **98m:01017**
Le Goff, Jean-Pierre Desargues et la naissance de la géométrie projective. [Desargues and the birth of projective geometry] **98d:01016**
(Lobachevskiĭ, N. I.) *see* **Montesinos-Amilibia, José María, 98g:01043**
Markushevich, A. I. *see* **Laptev, B. L.; et al., 98m:01017**
Mazzocca, Francesco Characterizations of classical algebraic varieties in some papers of Giuseppe Tallini and some personal memories of a friend. **98k:01033**
(Medvedev, F. A.) *see* **Laptev, B. L.; et al., 98m:01017**
Montesinos-Amilibia, José María Non-Euclidean geometries: Gauss, Lobachevskiĭ and Bolyai. (Spanish) **98g:01043**
Papelier, Georges ★ Exercices de géométrie moderne. (French) [Exercises of modern geometry] **98a:01024**
Pont, J.-C. Autour de la naissance de la géométrie non-euclidienne. [On the birth of non-Euclidean geometry] **98h:01015**
Rosenfeld, Boris A. *see* **Laptev, B. L.; et al., 98m:01017**
(Saccheri, Giovanni Girolamo) *see* **Dou Masdexexàs, Albert, 98g:01038**
(Tallini, Giuseppe) *see* **Karzel, Helmut, 98k:01032**; **Mazzocca, Francesco, 98k:01033**; **Thas, J. A., 98k:01034** *and* **Ceccherini, Pier Vittorio**
(Taurinus, Franz Adolph) *see* **Dou Masdexexàs, Albert, 98g:01038**
Thas, J. A. G. Tallini and his work. (English summary) **98k:01034**
Videla, Carlos R. On points constructible from conics. **98h:01003**
de Witt, Jan ★ Elementa curvarum linearum. Liber primus. (Dutch) **98m:01008**
(Yushkevich, A. P.) *see* **Laptev, B. L.; et al., 98m:01017**
Zormbala, Konstantina Gauss and the definition of the plane concept in Euclidean elementary geometry. (English, German and Greek summaries) **98a:01013**

51–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 51–04

Berinde, Vasile (*with* Cosma, Ovidiu) An elementary geometric construction performed by a computer. **98e:51029**
Cosma, Ovidiu *see* **Berinde, Vasile, 98e:51029**
Lam, Clement Wing Hong The search for a finite projective plane of order 10 [MR 92b:51013]. (*see* **98f:00027**)
Tan, Hong Yan *see* **Wu, Jin Zhao, 98c:03035**
Tazawa, Yoshihiko Curves and surfaces in the three-dimensional sphere placed in the space of quaternions. (English summary) (*see* **98g:00025**)
Wu, Jin Zhao (*with* Tan, Hong Yan) A method for mechanical geometry theorem proving. (English summary) **98c:03035**

51–06 Proceedings, conferences, collections, etc.

(Johnson, Norman Lloyd[1]) *see* **Mostly finite geometries, 98b:51002**
(Ostrom, T. G.) *see* **Mostly finite geometries, 98b:51002**
(Suzuki, Kenjiro) *see* **Conference: Engineering Computer Graphics and Descriptive Geometry, 98k:51002**
(Yoshida, Katsuyuki) *see* **Conference: Engineering Computer Graphics and Descriptive Geometry, 98k:51002**

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Birthday:
Ostrom, Theodore G. ★ Mostly finite geometries. **98b:51002**
Conference:
Engineering Computer Graphics and Descriptive Geometry ★ The 6th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1–3. **98k:51002**
Mostly Finite Geometries ★ Mostly finite geometries. **98b:51002**
Festschrift:
Ostrom, Theodore G. ★ Mostly finite geometries. **98b:51002**
Iowa City, IA ★ Mostly finite geometries. **98b:51002**
Mostly finite geometries ★ Mostly finite geometries. **98b:51002**
Tokyo ★ The 6th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1–3. **98k:51002**

Items with secondary classifications in 51–06

(Artémiadis, N. K.) *see* **Proceedings: Congress of Geometry, 98d:53003**
(Barlotti, A.) *see* **Combinatorics, 98e:00015**
(Bichara, Alessandro) *see* **Combinatorics, 98e:00015**
(Ceccherini, Pier Vittorio) *see* **Combinatorics, 98e:00015**
(Dyduch, Tadeusz) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
(Eugeni, F.) *see* **Combinatorics, 98e:00015**
(Górska, Renata) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
(Piekarski, Leszek) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
(Stephanidis, N. K.) *see* **Proceedings: Congress of Geometry, 98d:53003**
(Wyżykowski, Andrzej) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
(Żakowska, Lidia) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**

Items listed otherwise than by author

Combinatorics ★ Combinatorics. **98e:00015**
Conference:
Combinatorics '94 ★ Combinatorics. **98e:00015**
Engineering Computer Graphics and Descriptive Geometry ★ Proceedings of the 7th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1, 2. **98m:51020**
Congress:
Geometry ★ Proceedings of the 4th International Congress of Geometry. **98d:53003**
Cracow ★ Proceedings of the 7th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1, 2. **98m:51020**
Montesilvano ★ Combinatorics. **98e:00015**
Proceedings:
Conference on Engineering Computer Graphics and Descriptive Geometry ★ Proceedings of the 7th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1, 2. **98m:51020**
Congress of Geometry ★ Proceedings of the 4th International Congress of Geometry. **98d:53003**
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51Axx Linear incidence geometry

51A05 General theory and projective geometries

André, Johannes On generalized projective spaces operating on sets. (English summary) **98g:51001**
Havlicek, Hans (*with* Zanella, Corrado) Quadratic embeddings. (English summary) **98e:51002**
Machala, František Modulare Inzidenzstrukturen. (English summary) [Modular incidence structures] **98d:51001**
Pappas, Richard C. Oriented projective geometry with Clifford algebra. (English summary) (*see* **98a:30003**)
Wojtowicz, Barbara On some harmonic transformation "H" in the projective plane. (English and Polish summaries)
Zanella, Corrado *see* **Havlicek, Hans, 98e:51002**

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André, Johannes On non-commutative geometry. II. Ideal spaces. **98b:51003**
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Leedham-Green, C. R. (*with* O'Brien, E. A.) Tensor products are projective geometries. (English summary) **98b:20073**
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51A10 Homomorphism, automorphism and dualities

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Vasiu, Angela (*with* Oprea, Nicolae) On some extensions of collineations of a Desarguesian projective plane. (English summary) **98f:51004**
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51A15 Structures with parallelism

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Kreis, Edith Koordinatisierung von verallgemeinerten affinen Räumen. (English summary) [Coordinatization of generalized affine spaces] **98k:51003**
Ostrom, T. G. Remarks concerning linear systems with parallelism. **98h:51002**

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51A20 Configuration theorems

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Gropp, Harald Configurations and their realization. (English summary) **98f:51005**
Khashin, Serge I. Projective theory of graphs, and configurations of lines. (Russian. Russian summary) **98c:51004**
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Nestler, Karla *see* **Weiss, Gunter[1], 98g:51012**
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Weiss, Gunter[1] (*with* Nestler, Karla) Extensions and analoga of theorems of Steiner, Kantor, Morley. (English summary) **98g:51012**

51A25 Algebraization [see also 12Kxx, 20N05]

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51A30 Desarguesian and Pappian geometries

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Tallini, Giuseppe Perspective sets. (Italian. English summary) **98i:51001a**

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Maharjan, Hira B. On the existence of Desarguesian planes satisfying a condition of Suetake. (English summary) **98b:51011**

51A35 Non-Desarguesian affine and projective planes

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51A40 Translation planes and spreads

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Charnes, C. (*with* Dempwolff, U.) The translation planes of order 49 and their automorphism groups. (English summary) **98j:51007**
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— *see also* **Charnes, C., 98j:51007**
Enea, Maria R. (*with* Korchmáros, Gábor) Ovals in commutative semifield planes. (English summary) **98e:51012**
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51A45 Incidence structures imbeddable into projective geometries

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— (*with* Napolitano, Vito) Finite $\{2, 4\}$-semiaffine planes. (English summary) **98k:51006**
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Lo Re, Pia Maria (*with* Olanda, D.) Weakly $(1, 3)$-semiaffine planes. (English summary) **98k:51007**

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Metsch, Klaus Embedding theorems for locally projective three-dimensional linear spaces. (English summary) **98j:51022**
Shult, Ernest E. Embeddings and hyperplanes of the Lie incidence geometry of type $E_{7,1}$. (English summary) **98j:51018**
— *see also* **Cooperstein, Bruce N., 98c:51013**
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51A50 Polar geometry, symplectic spaces, orthogonal spaces

Cooperstein, Bruce N. On the generation of some dual polar spaces of symplectic type over GF(2). (English summary) **98k:51008**
Shult, Ernest E. On Veldkamp lines. (English summary) **98h:51005**

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Baumeister, Barbara (*with* Meixner, Thomas; Pasini, Antonio) GF(2)-expansions. (English summary) **98m:51010**
Bloemen, I. (*with* Thas, J. A.; Van Maldeghem, Hendrik) Elation generalized quadrangles of order (p, t), p prime, are classical. (English summary) **98c:51007**
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51A99 None of the above, but in this section

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51Bxx Nonlinear incidence geometry

51B05 General theory

Fiori, Carla *see* **Quattrocchi, Pasquale; et al., 98f:51008**
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51B10 Möbius geometries

Havlicek, Hans Invariant points of circular transformations. (English and Croatian summaries) **98c:51005**

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Polster, Burkard Flat circle planes as integrals of flat affine planes. (English summary) **98j:51006**
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51B15 Laguerre geometries

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51B20 Minkowski geometries

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51B25 Lie geometries

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51B99 None of the above, but in this section

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51C05 Ring geometry (Hjelmslev, Barbilian, etc.)

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51Dxx Geometric closure systems

51D10 Abstract geometries with exchange axiom

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51D15 Abstract geometries with parallelism

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51D20 Combinatorial geometries [see also 05B25, 05B35]

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51D25 Lattices of subspaces [see also 05B35]

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51Exx Finite geometry and special incidence structures

51E05 General block designs [see also 05B05]

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51E10 Steiner systems

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51E12 Generalized quadrangles, generalized polygons

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51E14 Finite partial geometries (general), nets, partial spreads

Casse, L. R. A. (*with* O'Keefe, Christine M.; Wild, P. R.) A representation of maximal (k,r)-sets of PG$(3n-1,q)$. (English summary) **98b:51007**

Fisher, P. H. A note on almost partial geometries. (English summary) **98m:51006**

Johnson, Norman Lloyd[1] (*with* Storme, Leo) Spreads corresponding to flocks of quadrics. (English summary) **98h:51010**

Kalhoff, Franz B. On projective embeddings of partial planes and rank-three matroids. (English summary) **98c:51010**

Mathon, Rudolf (*with* Street, Anne Penfold) Overlarge sets and partial geometries. (English summary) **98k:51013**

O'Keefe, Christine M. *see* **Casse, L. R. A.; et al., 98b:51007**

Storme, Leo *see* **Johnson, Norman Lloyd[1], 98h:51010**

Street, Anne Penfold *see* **Mathon, Rudolf, 98k:51013**

Thomas, Simon R. Designs and partial geometries over finite fields. (English summary) **98b:51008**

Wild, P. R. *see* **Casse, L. R. A.; et al., 98b:51007**

Items with secondary classifications in 51E14

O'Keefe, Christine M. (*with* Thas, J. A.) Partial flocks of quadratic cones with a point vertex in PG(n,q), n odd. (English summary) **98j:51015**

Thas, J. A. *see* **O'Keefe, Christine M., 98j:51015**

51E15 Affine and projective planes

Bonisoli, Arrigo (*with* Korchmáros, Gábor; Szőnyi, Tamás) Some multiply derived translation planes with SL$(2,5)$ as an inherited collineation group in the translation complement. (English summary) **98b:51009**

Busarkina, I. V. *see* **Podufalov, N. D., 98b:51012**

Charnes, C. (*with* Dempwolff, U.) The translation planes of order 49 and their automorphism groups. (English summary) **98j:51007**

Cordero, Minerva (*with* Figueroa, Raúl F.) Transitive autotopism groups and the generalized twisted field planes. **98j:51008**

— Matrix spread sets of p-primitive semifield planes. (English summary) **98b:51010**

Dempwolff, U. *see* **Charnes, C., 98j:51007**

Ebert, G. L. Replaceable nests. **98m:51007**

Figueroa, Raúl F. *see* **Cordero, Minerva, 98j:51008**

Fodor, Ferenc Linear spaces and partitioning the projective plane. (English summary) **98e:51007**

Glynn, David G. On cone representations of translation planes. (English summary) **98c:51011**
Hering, Christoph (*with* Schaeffer, Hans-Jörg) A remark on a theorem of T. G. Ostrom. **98j:51009**
Konvalina, John On the number of cyclic projective planes. (English summary) **98k:51014**
Korchmáros, Gábor *see* **Bonisoli, Arrigo; et al., 98b:51009**
Kuznetsov, Evgenii Alekseevich About some algebraic systems related with projective planes. (English summary) **98i:51004**
Lam, Clement Wing Hong The search for a finite projective plane of order 10 [MR 92b:51013]. (*see* **98f:00027**)
Maharjan, Hira B. On the existence of Desarguesian planes satisfying a condition of Suetake. (English summary) **98b:51011**
(Ostrom, T. G.) *see* **Hering, Christoph, 98j:51009**
Payne, S. E. (*with* Penttila, Tim; Royle, Gordon F.) Building a cyclic q-clan. (English summary) **98j:51010**
Penttila, Tim *see* **Payne, S. E.; et al., 98j:51010**
Podufalov, N. D. (*with* Busarkina, I. V.) The autotopism group of a p-primitive semifield plane of order q^4. (Russian. Russian summary) **98b:51012**
de Resmini, Marialuisa J. On the classical semitranslation plane of order 16. (English summary) **98h:51011**
Royle, Gordon F. *see* **Payne, S. E.; et al., 98j:51010**
Schaeffer, Hans-Jörg *see* **Hering, Christoph, 98j:51009**
Szőnyi, Tamás *see* **Bonisoli, Arrigo; et al., 98b:51009**
Thompson, John G. Incidence matrices of finite projective planes and their eigenvalues. **98e:51008**
Ueberberg, Johannes Frobenius collineations in finite projective planes. **98g:51004**
— Projective planes and dihedral groups. (English summary) **98i:51005**
Zaks, Joseph Some functions of points in projective spaces. (English summary) **98k:51015**

Items with secondary classifications in 51E15

Bichara, Alessandro Some papers by Tallini on Grassmann spaces.
Biliotti, Mauro (*with* Johnson, Norman Lloyd[1]) Variations on a theme of Dembowski. **98j:51004**
Durante, Nicola (*with* Metsch, Klaus) A characterization of projective 3-spaces. (English summary) **98i:05037**
Johnson, Norman Lloyd[1] *see* **Biliotti, Mauro, 98j:51004**
Metsch, Klaus *see* **Durante, Nicola, 98i:05037**
Prince, Alan R. Parallelisms of PG(3, 3) invariant under a collineation of order 5. (English summary) **98m:51009**
Rajola, Sandro Colourings with fixed congruence in finite projective planes. (English summary) **98e:51010**
Steinke, Günter F. Lenz-Barlotti classes of semi-classical ordered projective planes. (English summary) **98j:51026**
(Tallini, Giuseppe) *see* **Bichara, Alessandro**
Ueberberg, Johannes Interactive theorem proving and finite projective planes. (*see* **98d:68010**)
Wan, Zhe-xian Geometry of classical groups over finite fields and its applications. (English summary) (*see* **98e:00015**)

51E20 Combinatorial structures in finite projective spaces [see also 05Bxx]

Barwick, S. G. Unitals in the Hall plane. (English summary) **98b:51013**
— (*with* O'Keefe, Christine M.) Unitals and inversive planes. (English summary) **98b:51014**
Cossidente, Antonio (*with* Hirschfeld, J. W. P.; Storme, Leo) Applications of line geometry. III. The quadric Veronesean and the chords of a twisted cubic. (English summary) **98g:51005**
Dover, Jeremy M. A family of non-Buekenhout unitals in the Hall planes. **98h:51012**
Glynn, David G. A general theory of cone-representations. (Italian summary) **98k:51016**
Gunawardena, Athula (*with* Moorhouse, G. Eric) The non-existence of ovoids in $O_9(q)$. (English summary) **98d:51008**
Hirschfeld, J. W. P. *see* **Cossidente, Antonio; et al., 98g:51005**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) The doubly transitive flocks of quadratic cones. (English summary) **98k:51017**
Johnson, Norman Lloyd[1] (*with* Liu, Xiaobin) Flocks of quadratic and semi-elliptic cones. (English summary) **98g:51006**
— *see also* **Jha, Vikram, 98k:51017**
Liu, Xiaobin *see* **Johnson, Norman Lloyd[1], 98g:51006**
Lunardon, Guglielmo Flocks, ovoids of $Q(4, q)$ and designs. (English summary) **98h:51013**
Moorhouse, G. Eric Some p-ranks related to Hermitian varieties. (English summary) **98f:51010**
— *see also* **Gunawardena, Athula, 98d:51008**
O'Keefe, Christine M. *see* **Barwick, S. G., 98b:51014**
Packer, S. On sets of odd type in $PG(n, 4)$ with 21 Hermitian prime sections. (Italian summary) **98e:51009**
Perelli Cippo, Claudio A geometric interpretation of an equality by Sylvester. (English summary) **98k:51018**
Rajola, Sandro Colourings with fixed congruence in finite projective planes. (English summary) **98e:51010**
— An algebraic characterization of sets of type $(0, n)_1$ in $AG(2, q)$. (English summary) **98g:51007**
Shaw, Ron Icosahedral sets in PG(5, 2). (English summary) **98e:51011**
Storme, Leo *see* **Cossidente, Antonio; et al., 98g:51005**
Thas, J. A. Symplectic spreads in $PG(3, q)$, inversive planes and projective planes. (English summary) **98j:51011**
Van Maldeghem, Hendrik On finite conics.

Items with secondary classifications in 51E20

Cooperstein, Bruce N. (*with* Shult, Ernest E.) Combinatorial construction of some near polygons. (English summary) **98c:51008**
Itoh, Toyoharu A new family of 2-designs over $GF(q)$ admitting $SL_m(q^l)$. (English summary) **98m:05036**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Flocks of oval cones and extensions of theorems of Thas. (English summary) **98e:51013**
Johnson, Norman Lloyd[1] (*with* Liu, Xiaobin) The generalized Kantor-Knuth flocks. (English summary) **98g:51002**
— *see also* **Jha, Vikram, 98e:51013**
Karzel, Helmut Survey on the papers and personal memories of Giuseppe Tallini. **98k:01032**
Liu, Xiaobin *see* **Johnson, Norman Lloyd[1], 98g:51002**
Lunardon, Guglielmo (*with* Polito, Pompeo) On q-clans in even characteristic. **98k:51011**
Metsch, Klaus Embedding theorems for locally projective three-dimensional linear spaces. (English summary) **98j:51022**
Payne, S. E. (*with* Penttila, Tim; Royle, Gordon F.) Building a cyclic q-clan. (English summary) **98j:51010**
Penttila, Tim *see* **Payne, S. E.; et al., 98j:51010**
Polito, Pompeo *see* **Lunardon, Guglielmo, 98k:51011**
Pott, Alexander ★ Finite geometry and character theory. **98j:05032**
Royle, Gordon F. *see* **Payne, S. E.; et al., 98j:51010**
Shult, Ernest E. *see* **Cooperstein, Bruce N., 98c:51008**
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Ueberberg, Johannes Frobenius collineations in finite projective planes. **98g:51004**
Yoshiara, Satoshi A construction of extended generalized quadrangles using the Veronesean. (English summary) **98j:51021**

51E21 Blocking sets, ovals, k-arcs

Ball, Simeon Multiple blocking sets and arcs in finite planes. (English summary) **98g:51008**
— (*with* Blokhuis, Aart; Mazzocca, Francesco) Maximal arcs in Desarguesian planes of odd order do not exist. (English summary) **98h:51014**
— On small complete arcs in a finite plane. (English summary) **98j:51012**
Blokhuis, Aart *see* **Ball, Simeon; et al., 98h:51014**
Bonisoli, Arrigo On a theorem of Hering and two-transitive ovals with a fixed external line. **98h:51015**
Chao, J. M. (*with* Kaneta, H.) A complete 24-arc in PG(2, 29) with the automorphism group PSL(2, 7). (English and Italian summaries) **98f:51011**
Cossidente, Antonio Addendum to: "A new proof of the existence of $(q^2 - q + 1)$-arcs in $PG(2, q^2)$" [J. Geom. **53** (1995), no. 1-2, 37–40; MR 96e:51009]. **Dempwolff, U.** Ovoids and translation planes admitting A_5 at characteristic $p > 5$. (Italian summary) **98k:51019**
Enea, Maria R. (*with* Korchmáros, Gábor) Ovals in commutative semifield planes. (English summary) **98e:51012**
Faina, Giorgio (*with* Marcugini, S.; Milani, Alfredo; Pambianco, Fernanda) The spectrum of the values k for which there exists a complete k-arc in $PG(2, q)$ for $q \leq 23$. (English summary) **98m:51008**
Heim, Udo Proper blocking sets in projective spaces. (English summary) **98h:51016**
Ho, Chat Yin Arc subgroups of planar Singer groups. **98h:51017**
Jha, Vikram (*with* Johnson, Norman Lloyd[1]) Flocks of oval cones and extensions of theorems of Thas. (English summary) **98e:51013**
Johnson, Norman Lloyd[1] *see* **Jha, Vikram, 98e:51013**
Kaneta, H. *see* **Chao, J. M., 98f:51011**
Korchmáros, Gábor *see* **Enea, Maria R., 98e:51012**
Makhnev, Aleksandr A. Extensions of GQ(4, 2), the description of hyperovals. (Russian. Russian summary) **98j:51013**
Marcugini, S. *see* **Faina, Giorgio; et al., 98m:51008**
Maruta, Tatsuya Cyclic arcs and pseudo-cyclic MDS codes. (English summary) **98k:51020**
Maschietti, Antonio A characterization of translation hyperovals. (English summary) **98j:51014**
Mazzocca, Francesco *see* **Ball, Simeon; et al., 98h:51014**
Milani, Alfredo *see* **Faina, Giorgio; et al., 98m:51008**
O'Keefe, Christine M. (*with* Penttila, Tim) Ovals in translation hyperovals and ovoids. (English summary) **98f:51012**
— (*with* Thas, J. A.) Partial flocks of quadratic cones with a point vertex in $PG(n, q)$, n odd. (English summary) **98j:51015**
Pambianco, Feraanda *see* **Faina, Giorgio; et al., 98m:51008**
Penttila, Tim *see* **O'Keefe, Christine M., 98f:51012**
Rajola, Sandro (*with* Scafati Tallini, M.) Marshall Hall's ternary rings and blocking sets in projective planes. (Italian. English summary) **98c:51012**
Scafati Tallini, M. *see* **Rajola, Sandro, 98c:51012**
Sonnino, A. k-arcs in Benz planes. (Italian. English summary) **98k:51021**
Storme, Leo Normal rational curves over prime fields. (English summary) **98h:51018**
— Small arcs in projective spaces. (English summary) **98a:51007**
Szőnyi, Tamás Some applications of algebraic curves in finite geometry and combinatorics. (English summary) **98k:51022**
— Blocking sets in Desarguesian affine and projective planes. (English summary) **98h:51019**
Thas, J. A. *see* **O'Keefe, Christine M., 98j:51015**

Items with secondary classifications in 51E21

Ballico, Edoardo (*with* Cossidente, Antonio) Subvarieties of Segre varieties and trisecant lines. (English summary) **98g:14069**
Beutelspacher, Albrecht Some of Giuseppe Tallini's papers on Galois geometries. **98k:51001**
Cossidente, Antonio *see* **Ballico, Edoardo, 98g:14069**
De Smet, Veerle (*with* Van Maldeghem, Hendrik) A geometric construction of a class of twisted field planes by Ree-Tits unitals. (English summary) **98c:51009**
Eisfeld, Jörg (*with* Metsch, Klaus) Blocking s-dimensional subspaces by lines in $PG(2s, q)$. (English summary) **98i:05038**

Johnson, Norman Lloyd[1] (*with* Payne, S. E.) Flocks of Laguerre planes and associated geometries. **98h:51009**
— (*with* Storme, Leo) Spreads corresponding to flocks of quadrics. (English summary) **98h:51010**
Lunardon, Guglielmo Flocks, ovoids of $Q(4,q)$ and designs. (English summary) **98h:51013**
Metsch, Klaus *see* **Eisfeld, Jörg, 98i:05038**
Payne, S. E. *see* **Johnson, Norman Lloyd[1], 98h:51009**
Prince, Alan R. Oval configurations of involutions in symmetric groups. (English summary) (*see* **98e:00015**)
Storme, Leo *see* **Johnson, Norman Lloyd[1], 98h:51010**
(Tallini, Giuseppe) *see* **Beutelspacher, Albrecht, 98k:51001**
Thas, J. A. Symplectic spreads in $PG(3,q)$, inversive planes and projective planes. (English summary) **98j:51011**
Van Maldeghem, Hendrik *see* **De Smet, Veerle, 98c:51009**

51E22 Linear codes and caps in Galois spaces [see also 94B05]

Bruen, Aiden A. (*with* Wehlau, David L.) Partitioning quadrics, symmetric group divisible designs and caps. (English summary) **98e:51014**
Faina, Giorgio (*with* Pambianco, Fernanda) Small complete caps in $PG(r,q)$, $r \geq 3$. (English summary) **98k:51023**
Ferri, Osvaldo (*with* Ferri, Stefania) On some caps of class $[1,m,n]_2$ in $AG(3,q)$. (English summary)
Ferri, Stefania *see* **Ferri, Osvaldo**
Key, J. D. (*with* de Resmini, Marialuisa J.) Small sets of even type and codewords. (English summary) **98k:51024**
Nagy, Gábor P. (*with* Szőnyi, Tamás) Caps in finite projective spaces of odd order. (English summary) **98f:51013**
Pambianco, Fernanda *see* **Faina, Giorgio, 98k:51023**
de Resmini, Marialuisa J. *see* **Key, J. D., 98k:51024**
Szőnyi, Tamás *see* **Nagy, Gábor P., 98f:51013**
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Items with secondary classifications in 51E22

Bierbrauer, Jürgen (*with* Edel, Yves) A family of 2-weight codes related to BCH-codes. (English summary) **98g:94038b**
— *see also* **Edel, Yves, 98g:94038a**
Chao, J. M. (*with* Kaneta, H.) A complete 24-arc in $PG(2,29)$ with the automorphism group $PSL(2,7)$. (English and Italian summaries) **98f:51011**
Edel, Yves (*with* Bierbrauer, Jürgen) Twisted BCH-codes. (English summary) **98g:94038a**
— *see also* **Bierbrauer, Jürgen, 98g:94038b**
Faina, Giorgio Complete arcs and caps in some papers of Giuseppe Tallini and walking with Giuseppe Tallini along the streets of "Augusta Perusia".
Hamada, Noboru (*with* Helleseth, Tor) A characterization of $\{3v_1+v_4, 3v_0+v_3; 4, 3\}$-minihypers and projective ternary $[78, 5, 51]$ codes. (English summary) **98c:94021**
Helleseth, Tor *see* **Hamada, Noboru, 98c:94021**
Kaneta, H. *see* **Chao, J. M., 98f:51011**
Li, Feng Gao[2] Construction of Cartesian authentication codes using finite pseudosymplectic geometries. (Chinese. English and Chinese summaries)
Li, Li[4] *see* **Zhang, Xiao Li**
Maruta, Tatsuya On the minimum length of q-ary linear codes of dimension five. (English summary) **98b:94021**
Moorhouse, G. Eric Some p-ranks related to Hermitian varieties. (English summary) **98f:51010**
Scharlau, Rudolf (*with* Tiep, Pham Huu) Symplectic groups, symplectic spreads, codes, and unimodular lattices. (English summary) **98g:20075**
(Tallini, Giuseppe) *see* **Faina, Giorgio**
Tiep, Pham Huu *see* **Scharlau, Rudolf, 98g:20075**
Zhang, Xiao Li (*with* Li, Li[4]) A construction of Cartesian authentication codes over orthogonal geometries. (Chinese. English and Chinese summaries)

51E23 Spreads and packing problems

Bonisoli, Arrigo (*with* Cossidente, Antonio; Saeli, Donato) Partitioning projective geometries into Segre varieties. (English summary) **98b:51015**
Cossidente, Antonio *see* **Bonisoli, Arrigo; et al., 98b:51015**
Eisfeld, Jörg On smallest covers of finite projective spaces. (English summary) **98b:51016**
Heden, Olof Another Bruen chain.
Pomareda, Rolando Hyper-reguli in projective space of dimension 5. (English summary) **98f:51014**
Prince, Alan R. Parallelisms of $PG(3,3)$ invariant under a collineation of order 5. (English summary) **98m:51009**
Saeli, Donato *see* **Bonisoli, Arrigo; et al., 98b:51015**
Sherk, F. A. Classical spaces that interact with spreads. **98j:51016**

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Barwick, S. G. Unitals in the Hall plane. (English summary) **98b:51013**
Beutelspacher, Albrecht Some of Giuseppe Tallini's papers on Galois geometries. **98k:51001**
Biliotti, Mauro (*with* Johnson, Norman Lloyd[1]) Variations on a theme of Dembowski. **98j:51004**
Calderbank, A. R. (*with* Cameron, Peter J.; Kantor, William M.; Seidel, Johan Jacob) Z_4-Kerdock codes, orthogonal spreads, and extremal Euclidean line-sets. **98i:94039**
Cameron, Peter J. *see* **Calderbank, A. R.; et al., 98i:94039**
Cossidente, Antonio On Kestenband-Ebert partitions. (English summary) **98h:20084**
Johnson, Norman Lloyd[1] *see* **Biliotti, Mauro, 98j:51004**
Kantor, William M. *see* **Calderbank, A. R.; et al., 98i:94039**
Mathon, Rudolf (*with* Street, Anne Penfold) Overlarge sets and partial geometries. (English summary) **98k:51013**
Seidel, Johan Jacob *see* **Calderbank, A. R.; et al., 98i:94039**
Street, Anne Penfold *see* **Mathon, Rudolf, 98k:51013**
(Tallini, Giuseppe) *see* **Beutelspacher, Albrecht, 98k:51001**
Ueberberg, Johannes A note on regular and geometric spreads. (English and Italian summaries) **98m:51002**

51E24 Buildings and the geometry of diagrams

Bardoe, Matthew Kirby The universal embedding for the $U_4(3)$ involution geometry. (English summary) **98e:51015**
— The universal embedding for the involution geometry of the Suzuki sporadic simple group. (English summary) **98e:51016**
— Embeddings, geometries and representations: connections and computations. (English summary) **98k:51025**
Baumeister, Barbara (*with* Pasechnik, D. V.) The universal covers of certain semibiplanes. (English summary) **98f:51015**
— (*with* Meixner, Thomas; Pasini, Antonio) GF(2)-expansions. (English summary) **98m:51010**
— (*with* Pasini, Antonio) On flat flag-transitive $c.c^*$-geometries. (English summary) **98a:51008**
Buekenhout, Francis (*with* Dehon, Michel; Cara, Philippe) Inductively minimal flag-transitive geometries. (English summary) **98h:51020**
Cara, Philippe *see* **Buekenhout, Francis; et al., 98h:51020**
Cartwright, Donald I. A brief introduction to buildings. (English summary) **98k:51026**
Cooperstein, Bruce N. (*with* Shult, Ernest E.) Geometric hyperplanes of Lie incidence geometries. (English summary) **98c:51013**
— (*with* Shult, Ernest E.) Frames and bases of Lie incidence geometries. (English summary) **98j:51017**
Dehon, Michel *see* **Buekenhout, Francis; et al., 98h:51020**
Del Fra, Alberto (*with* Pica, G.) Flag-transitive $C_2.L_n$ geometries. (English summary) **98i:51006**
Huybrechts, Cécile An arithmetic reduction of finite rank 3 geometries with linear spaces as plane residues and with dual linear spaces as point residues. (English summary) **98a:51009**
Ivanov, Aleksandr Anatol'evich (*with* Stroth, Gernot) A characterization of 3-local geometry of $M(24)$. (English summary) **98g:51009**
— Exceptional extended dual polar spaces. (English summary) **98m:51011**
— (*with* Shpektorov, S. V.) The universal nonabelian representation of the Petersen type geometry related to J_4. (English summary) **98i:51007**
— (*with* Meierfrankenfeld, U.) Simple connectedness of the 3-local geometry of the Monster. (English summary) **98k:51027**
Kasikova, Anna (*with* Shult, Ernest E.) A new infinite family of extended generalized quadrangles. **98h:51021**
Mantero, A. M. (*with* Zappa, A.) Characterization of the eigenfunctions of the Laplace operators for an affine building of rank 2. (*see* **98b:31001**)
Meierfrankenfeld, U. *see* **Ivanov, Aleksandr Anatol'evich, 98k:51027**
Meixner, Thomas *see* **Baumeister, Barbara; et al., 98m:51010**
Pasechnik, D. V. The extensions of the generalized quadrangle of order (3, 9). (English summary) **98a:51010**
— *see also* **Baumeister, Barbara, 98f:51015**
Pasini, Antonio A quarry of geometries. (Italian summary) **98h:51022**
— Some geometries of type $c.C_2$ and $C_2.Af$. (Italian summary) **98b:51017**
— *see also* **Baumeister, Barbara, 98a:51008** *and* **98m:51010**
Pica, G. *see* **Del Fra, Alberto, 98i:51006**
Shpektorov, S. V. *see* **Ivanov, Aleksandr Anatol'evich, 98i:51007**
Shult, Ernest E. Embeddings and hyperplanes of the Lie incidence geometry of type $E_{7,1}$. (English summary) **98j:51018**
— *see also* **Cooperstein, Bruce N., 98c:51013**; **Kasikova, Anna, 98h:51021** *and* **Cooperstein, Bruce N., 98j:51017**
Stroth, Gernot *see* **Ivanov, Aleksandr Anatol'evich, 98g:51009**
Wiedorn, Corinna A tilde geometry for $F_4(2)$. **98j:51019**
— A certain uniqueness result for the tilde geometry for $F_4(2)$. **98j:51020**
Yoshiara, Satoshi On some flag-transitive non-classical $c.C_2$-geometries. II. (English summary) **98k:51028**
— A construction of extended generalized quadrangles using the Veronesean. (English summary) **98j:51021**
Zappa, A. *see* **Mantero, A. M., (98b:31001)**
Zieschang, Paul-Hermann On dihedral configurations and their Coxeter geometries. (English summary) **98e:51017**

Items with secondary classifications in 51E24

Abramenko, Peter Group actions on twin buildings. **98d:20032**
Baumeister, Barbara A computer-free construction of the third group of Janko. (English summary) **98e:20023**
Bourdon, Marc Immeubles hyperboliques, dimension conforme et rigidité de Mostow. (English and French summaries) [Hyperbolic buildings, conformal dimension and Mostow rigidity] **98c:20056**
Druțu, C. Nondistorsion des horosphères dans des immeubles euclidiens et dans des espaces symétriques. (English summary) [Nondistortion of horospheres in Euclidean buildings and symmetric spaces] **98h:53084**
Garrett, Paul ★ Buildings and classical groups. (English summary) **98k:20081**
Metsch, Klaus Embedding theorems for locally projective three-dimensional linear spaces. (English summary) **98j:51022**
Paulin, Frédéric Dégénérescence de sous-groupes discrets des groupes de Lie semi-simples. (English and French summaries) [Degeneracy of discrete subgroups of semisimple Lie groups] **98g:22006**
Ramagge, Jacqui (*with* Robertson, A. Guyan) Factors from buildings. (English summary) (*see* **98b:31001**)
Robertson, A. Guyan (*with* Steger, Tim) Maximal abelian subalgebras of the group factor of an $\tilde{A}_2$ group. (English summary) **98b:46078**

— (*with* Steger, Tim) C^*-algebras arising from group actions on the boundary of a triangle building. **98b:46088**
— *see also* **Ramagge, Jacqui**, (**98b:31001**)
Shult, Ernest E. On Veldkamp lines. (English summary) **98h:51005**
Smith, Stephen D. (*with* Yoshiara, Satoshi) Some homotopy equivalences for sporadic geometries. (English summary) **98e:20024**
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51E25 Other finite nonlinear geometries

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51E26 Other finite linear geometries

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51F15 Reflection groups, reflection geometries [see also 20H10, 20H15; for Coxeter groups, see 20F55]

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51H25 Geometries with differentiable structure [see also 53Cxx, 53C70]

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51Jxx Incidence groups

51J10 Projective incidence groups

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51J20 Representation by near-fields and near-algebras [see also 12K05, 16Y30]

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51L15 n-vertex theorems via direct methods

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Kimberling, Clark Major centers of triangles. **98a:51016**
Mazur, Marcin Circular triples. (English summary) **98m:51014**
Post, Karel A. A freshman's proof in circle geometry. (English summary) **98g:51011**
Sato, Hajime Orbits of triangles obtained by interior division of sides. (English summary) **98m:51015**

51M16 Inequalities and extremum problems {For convex problems see 52A40.}

Arslanagić, Šefket *see* **Janous, Walter, 98g:51013**
Bailey, Herbert R. (*with* Bannister, Robert) A stronger triangle inequality. **98b:51021**
Bannister, Robert *see* **Bailey, Herbert R., 98b:51021**
Bencze, Mihály (*with* Popovici, Florin) An elementary solution of a problem of Paul Erdős.
Cipu, Aurelia (*with* Cipu, Mihai) Inequalities for the sum of the distances of a point to the vertices of a triangle. **98j:51033**
Cipu, Mihai *see* **Cipu, Aurelia, 98j:51033**
(Erdős, Paul[1]**)** *see* **Bencze, Mihály**
Griffiths, H. Brian (*with* Oldknow, Adrian J.) Triangles and trilinear coordinates. (English summary)
Janous, Walter (*with* Arslanagić, Šefket) Inequalities for the internal angle-bisectors of a triangle. (English and Croatian summaries) **98g:51013**
Kong, Fan Zhe *see* **Zeng, Zheng**
Leng, Gang Song A conjecture about Gerber's inequality. (Chinese. English and Chinese summaries) **98d:51016**
Mao, Qiji Two inequalities for finite point set in N-dimensional spherical space. (English and Chinese summaries)
Milošević, Dragoljub M. *see* **Sándor, József**

Oldknow, Adrian J. *see* **Griffiths, H. Brian**
Popovici, Florin *see* **Bencze, Mihály**
Sándor, József On certain inequalities for the distances of a point to the vertices and the sides of a triangle.
— (*with* Milošević, Dragoljub M.) On some new triangle inequalities.
— On some new geometric inequalities.
— (*with* Milošević, Dragoljub M.) Some inequalities for the elements of a triangle.
Shen, Wen Xuan (*with* Yang, Shi Guo) Some theorems on geometrical inequalities for a simplex. (Chinese. English and Chinese summaries)
Stevanović, Milorad R. *see* **Žižović, Miloša R.**, (**98k:00021**)
Su, Hua Ming Third discussion of inequalities for tangent point simplices. (Chinese. English and Chinese summaries) **98a:51021**
Wang, Geng (*with* Yang, Shi Guo) Applications of some geometric inequalities to systems of mass points. (Chinese. English and Chinese summaries) **98i:51014**
— *see also* **Yang, Shi Guo, 98e:51030**
Wang, Jia A circumradius-inradius identity and an identity relating volumes for a simplex. (English summary) **98k:51034**
Yang, Shi Guo Some inequalities for finite sets of points in spaces of constant curvature. (Chinese. Chinese summary) **98c:51026**
— (*with* Wang, Geng) A class of geometric inequalities for the vertex angles of order k in a simplex. (Chinese. English and Chinese summaries) **98e:51030**
— *see also* **Wang, Geng, 98i:51014** *and* **Shen, Wen Xuan**
Zeng, Zheng (*with* Kong, Fan Zhe) A general result on the problem of upper and lower bounds for $\sum \cos^{\alpha}(A/2)$. (Chinese. English and Chinese summaries)
Žižović, Miloša R. (*with* Stevanović, Milorad R.) Some inequalities for altitudes and other elements of triangle. (English summary) (*see* **98k:00021**)

Items with secondary classifications in 51M16

Bencze, Mihály (*with* Popovici, Florin) A refinement of the Euler's inequality $R \geq 2r$.
Hong, Yi[1] (*with* Wang, Guo Qiang; Tao, Zhi Sui) A problem of Heilbronn type in higher-dimensional spaces. (Chinese. English and Chinese summaries) **98e:51031**
Kotlyar, B. D. On inscribed and circumscribed bodies. (Russian. English, Russian and Ukrainian summaries) **98i:52011**
Popovici, Florin *see* **Bencze, Mihály**
Tao, Zhi Sui *see* **Hong, Yi[1]; et al., 98e:51031**
Wang, Guo Qiang *see* **Hong, Yi[1]; et al., 98e:51031**

51M20 Polyhedra and polytopes; regular figures, division of spaces [see also 51F15]

Items with secondary classifications in 51M20

Bouzette, Sabine (*with* Buekenhout, Francis; Dony, Edmond; Gottcheiner, Alain) A theory of nets for polyhedra and polytopes related to incidence geometries. (English summary) **98a:52016**
Buekenhout, Francis *see* **Bouzette, Sabine; et al., 98a:52016**
Chilla, Benigna Virtual movement through planar geometry: fundamental concepts in visual art. (English summary)
Coxeter, Harold Scott MacDonald (*with* Fisher, J. Chris; Wilker, J. B.) Coordinates for the regular complex polygons. (English summary) **98b:52012**
— Reciprocating the regular polytopes. (English summary) **98d:52017**
Dony, Edmond *see* **Bouzette, Sabine; et al., 98a:52016**
Fisher, J. Chris *see* **Coxeter, Harold Scott MacDonald; et al., 98b:52012**
Gottcheiner, Alain *see* **Bouzette, Sabine; et al., 98a:52016**
Leng, Gang Song Some inequalities involving two simplexes. (English summary) **98g:52016**
Madden, T. M. *see* **do Rosário Pinto, Maria, 98k:52009**
Martini, Horst Sätze über Fünfecke. (German summary) [Theorems on pentagons] **98e:51026**
do Rosário Pinto, Maria (*with* Madden, T. M.) The symmetry group of perfect solids. (English summary) **98k:52009**
Wilker, J. B. *see* **Coxeter, Harold Scott MacDonald; et al., 98b:52012**

51M25 Length, area and volume [see also 26B15]

Hong, Yi[1] (*with* Wang, Guo Qiang; Tao, Zhi Sui) A problem of Heilbronn type in higher-dimensional spaces. (Chinese. English and Chinese summaries) **98e:51031**
Lee, Jung Rye The law of cosines in a tetrahedron. (English summary) **98i:51015**
Reuben, A. J. (*with* Shannon, Anthony) Ellipses, cardioids, and Penrose tiles.
Robinson, Donald W. Separation of subspaces by volume.
Schröder, E. M. Flächenmessung für Polygone in sphärischen Ebenen bei beliebigem Koordinatenkörper. [Measuring the surface areas of polygons in spherical planes with an arbitrary field of coordinates] **98d:51017**
Shannon, Anthony *see* **Reuben, A. J.**
Tao, Zhi Sui *see* **Hong, Yi[1]; et al., 98e:51031**
Wang, Guo Qiang *see* **Hong, Yi[1]; et al., 98e:51031**
Ying, Jing Yao The concept of the quasi-sine of a spatial angle of a simplex and its application. (Chinese. English and Chinese summaries)

Items with secondary classifications in 51M25

Bencze, Mihály Noncongruent convex polygons which have equal perimeters and areas.
Kawohl, Bernhard The opaque square and the opaque circle. **98f:52006**
Kotlyar, B. D. On inscribed and circumscribed bodies. (Russian. English, Russian and Ukrainian summaries) **98i:52011**
Leng, Gang Song A conjecture about Gerber's inequality. (Chinese. English and Chinese summaries) **98d:51016**
Schuster, Wolfgang Quadratische Identitäten bei Polygonen. (English summary) [Quadratic identities in polygons] **98f:51029**
Su, Hua Ming Third discussion of inequalities for tangent point simplices. (Chinese. English and Chinese summaries) **98a:51021**
Wang, Geng (*with* Yang, Shi Guo) Applications of some geometric inequalities to systems of mass points. (Chinese. English and Chinese summaries) **98i:51014**
Wang, Jia A circumradius-inradius identity and an identity relating volumes for a simplex. (English summary) **98k:51034**
Yang, Shi Guo *see* **Wang, Geng, 98i:51014**
Zhang, Xin-Min Bonnesen-style inequalities and pseudo-perimeters for polygons. (English summary) **98j:52012**

51M30 Line geometries and their generalizations [see also 53A25]

Maks, Johannes G. Spacetime algebra and line geometry. (*see* **98f:15022**)

Items with secondary classifications in 51M30

Stachel, Hellmuth Euclidean line geometry and kinematics in the 3-space. (English summary) **98f:53011**

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [see also 14M15]

Items with secondary classifications in 51M35

Degen, Wendelin L. F. The types of triangular Bézier surfaces. (English summary) **98h:51033**

51M99 None of the above, but in this section

Colbois, Bruno Metrische Geometrie. (English and German summaries) [Metric geometry]
Conti, Pasqualina (*with* Traverso, Carlo) A case of automatic theorem proving in Euclidean geometry: the Maclane 8_3 theorem. (English summary) **98a:51022**
Drews, Klaus-Dieter Zu zwei Aufgaben aus Anfangsgründen der fraktalen. [On two problems from the beginnings of fractal geometry]
Kovács, Gabriella (*with* Pop, Maria S.) Geometric consequences of a mean value theorem. (English summary)
Pop, Maria S. *see* **Kovács, Gabriella**
Tan, Hong Yan (*with* Wu, Jin Zhao) Automated proofs of a class of theorems of elementary geometry. (Chinese. English and Chinese summaries) **98m:51018**
Traverso, Carlo *see* **Conti, Pasqualina, 98a:51022**
Wu, Jin Zhao Mechanical geometry theorem proving based on Groebner bases. (English summary) **98a:51023**
— *see also* **Tan, Hong Yan, 98m:51018**

Items with secondary classifications in 51M99

Ahdout, Shahla (*with* Rothman, Sheldon) Additive subgroups of the plane. **98k:22019**
Porter, R. Michael Quaternionic linear and quadratic equations. (English summary) **98b:15030**
Rothman, Sheldon *see* **Ahdout, Shahla, 98k:22019**

51Nxx Analytic and descriptive geometry

Vaisman, Izu ★ Analytical geometry. **98j:51034**

Items with secondary classifications in 51Nxx

Lind, Detlef ★ Koordinaten, Vektoren, Matrizen. (German) [Coordinates, vectors, matrices] **98g:15001**

51N05 Descriptive geometry [see also 65D17, 68U07]

Babić, Ivanka Darstellende Geometrie im hyperbolischen H^3-Raum. I. Teil. Grundbegriffe. Definitionen. Lagenbeziehungen. (English and Croatian summaries) [Descriptive geometry in hyperbolic H^3-space. I. Basic concepts. Definitions. Positional relations.] **98e:51032**
(Dyduch, Tadeusz) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
(Górska, Renata) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
Grochowski, Bogusław ★ Geometria wykreślna. (Polish. Polish summary) [Descriptive geometry]
Koczyk, Henryk ★ Geometria wykreślna. (Polish. Polish summary) [Descriptive geometry]
Moons, Theo (*with* Van Gool, L. J.; Pollefeys, Marc) Geometrical structure from perspective image pairs. **98h:51032**
(Piekarski, Leszek) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
Pollefeys, Marc *see* **Moons, Theo; et al., 98h:51032**
Van Gool, L. J. *see* **Moons, Theo; et al., 98h:51032**
Wang, Ai Qun *see* **Yuan, Li Xing; et al.**
Weiss, Gunter[1] $(n, 2)$-axonometries and the contour of hyperspheres. (English summary) **98m:51019**
(Wyżykowski, Andrzej) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
Yuan, Li Xing (*with* Zheng, Nan Ning; Wang, Ai Qun) A new method for computing spatial perspective invariants. (Chinese. English and Chinese summaries)
(Żakowska, Lidia) *see* **Proceedings: Conference on Engineering Computer Graphics and Descriptive Geometry, 98m:51020**
Zheng, Nan Ning *see* **Yuan, Li Xing; et al.**

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Conference:

Engineering Computer Graphics and Descriptive Geometry ★ Proceedings of the 7th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1, 2. **98m:51020**

Cracow ★ Proceedings of the 7th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1, 2. **98m:51020**

Problems:

Descriptive geometry *see* **Koczyk, Henryk**

Proceedings:

Conference on Engineering Computer Graphics and Descriptive Geometry ★ Proceedings of the 7th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1, 2. **98m:51020**

Items with secondary classifications in 51N05

Brunhes, Edmond ★ Géométrie descriptive. Tome I. (French) [Descriptive geometry. Vol. I] **98k:01047**

— ★ Géométrie descriptive. Tome II. (French) [Descriptive geometry. Vol. II] **98k:01048**

Nagy, Györgyi F. The design of egglike curves. **98e:53014**

Orlova, G. B. (*with* Silin, D. B.) Approximate calculation of the convex hull of a positive-homogeneous function. (Russian. Russian summary) **98m:65021**

Silin, D. B. *see* **Orlova, G. B., 98m:65021**

(Suzuki, Kenjiro) *see* **Conference: Engineering Computer Graphics and Descriptive Geometry, 98k:51002**

(Yoshida, Katsuyuki) *see* **Conference: Engineering Computer Graphics and Descriptive Geometry, 98k:51002**

Items listed otherwise than by author

Conference:

Engineering Computer Graphics and Descriptive Geometry ★ The 6th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1–3. **98k:51002**

Tokyo ★ The 6th International Conference on Engineering Computer Graphics and Descriptive Geometry. Vol. 1–3. **98k:51002**

51N10 Affine analytic geometry

Aumann, Günter (*with* Hartl, Johann) Einige Bemerkungen über Quadriken in affinen Räumen. (German summary) [Some remarks on quadrics in affine spaces] **98m:51021**

Hartl, Johann *see* **Aumann, Günter, 98m:51021**

Janić, Milan H-projecting in n-dimensional Euclidean space E^n. (English summary)

Items with secondary classifications in 51N10

Glasa, Ján *see* **Podhájecký, Gerard, 98i:68271**

Podhájecký, Gerard (*with* Glasa, Ján) On planar affine transform determination. (English summary) **98i:68271**

51N15 Projective analytic geometry

Feng, Ping Hua Inverse projective transformations and polar transformations in higher-dimensional projective spaces. (Chinese. English and Chinese summaries)

Fillmore, Jay P. (*with* Paluszny, Marco) On the geometry of a quadratic form: pencils and the Apollonius contact problem. (English and Spanish summaries) **98e:51033**

González Calvet, Ramon (*with* Homs, Josep; Solsona, Jordi) Estimating the error made in determining the place from which a photograph was taken. (Catalan)

Graňó, Núria (*with* Llona, Albert; Suau, Francesc) Projective geometry: the photograph problem. (Catalan)

Homs, Josep *see* **González Calvet, Ramon; et al.**

Llona, Albert *see* **Graňó, Núria; et al.**

Paluszny, Marco *see* **Fillmore, Jay P., 98e:51033**

Pappas, Richard C. Projective quadrics, poles, polars, and Legendre transformations. (*see* **98f:15022**)

Solsona, Jordi *see* **González Calvet, Ramon; et al.**

Suau, Francesc *see* **Graňó, Núria; et al.**

Sudoplatov, S. V. On the trigonometries of finite groups and groups with subgroups having trigonometries. (Russian. Russian summary) **98b:51022**

Sugimoto, Akihiro Extracting information of objects independent of their observations—projection invariants of n-dimensional objects. (English summary) **98e:51034**

Tian, Yu Ping[2] A note on a projective definition of similarity transformations. (Chinese. English and Chinese summaries)

Xiao, Hui Cheng A direct proof that a plane projective transformation has a fixed line through a fixed point. (Chinese. English and Chinese summaries)

Items with secondary classifications in 51N15

Lasenby, Joan Geometric algebra: applications in engineering. (*see* **98f:15022**)

Schröder, E. M. Flächenmessung für Polygone in sphärischen Ebenen bei beliebigem Koordinatenkörper. [Measuring the surface areas of polygons in spherical planes with an arbitrary field of coordinates] **98d:51017**

Zaks, Joseph Some functions of points in projective spaces. (English summary) **98k:51015**

51N20 Euclidean analytic geometry

Bøgeskov, Tom The cycloid as timekeeper. A geometric presentation of an analytic function. (Danish. English summary) **98d:51018**

Chen, Zhan Ben Trigonometry in inner product spaces and characteristics of inner product spaces. (Chinese. English and Chinese summaries) **98f:51034**

Gòźdź, Stanislaw On Jordan plane curves which are isoptics of an oval. **98m:51022**

Lin, Meng Lei The problem of the characteristic roots of a second-degree curve. (Chinese. Chinese summary) **98b:51023**

Mo, Can Lin (*with* Tan, Jian Rong) Constant angular rotation transformations and their applications. (Chinese. English and Chinese summaries) **98f:51035**

Okubo, Katsumi *see* **Sano, Keita; et al., 98b:51025**

Peternell, Martin (*with* Pottmann, Helmut) Computing rational parametrizations of canal surfaces. (English summary) **98b:51024**

Pottmann, Helmut *see* **Peternell, Martin, 98b:51024**

Sano, Keita (*with* Yoshikawa, Ryozo; Okubo, Katsumi) Generalization of the cosine formulas. (Japanese. English summary) **98b:51025**

Shibuya, Ken-ichi *see* **Yamaguti, Kiyosi, 98k:51035**

Shou, Hua Hao (*with* Wang, Guo Jin[1]) Rational quartic Bernstein basis representation of circular arcs. (Chinese. English and Chinese summaries)

Szymański, Stanisław Straight lines in square geometry. (Polish) **98d:51019**

Tan, Jian Rong *see* **Mo, Can Lin, 98f:51035**

Wang, Guo Jin[1] *see* **Shou, Hua Hao**

Wu, Zheng Xing A property of curves and surfaces under symmetric transformations. (Chinese) **98b:51026**

Yamaguti, Kiyosi (*with* Shibuya, Ken-ichi) Geometric constructions of imaginary intersections of the graph of quadratic function passing through some given points and the x-axis. (English summary) **98k:51035**

Yoshikawa, Ryozo *see* **Sano, Keita; et al., 98b:51025**

Items with secondary classifications in 51N20

Bhattacharya, Prabir *see* **Heisterkamp, Douglas R., 98b:68165**

Coville, Neil J. *see* **White, David P.; et al., 98e:92004**

Cvejić, Stana D. *see* **Dimitrovski, Dragan; et al., (98b:00030)**

Dimitrovski, Dragan (*with* Mijatović, Mijat; Cvejić, Stana D.) Differential equation II-order geometry. (English summary) (*see* **98b:00030**)

Heisterkamp, Douglas R. (*with* Bhattacharya, Prabir) Invariants of families of coplanar conics and their applications to object recognition. (English summary) **98b:68165**

Leach, P. G. L. *see* **White, David P.; et al., 98e:92004**

Lester, June A. Triangles. III. Complex triangle functions. (English summary) **98c:51022**

Mijatović, Mijat *see* **Dimitrovski, Dragan; et al., (98b:00030)**

Weiss, Gunter[1] $(n, 2)$-axonometries and the contour of hyperspheres. (English summary) **98m:51019**

White, David P. (*with* Leach, P. G. L.; Coville, Neil J.) Solid angles. V. Chiral molecules and the case of face selectivity. (English summary) **98e:92004**

Zaks, Joseph Some functions of points in projective spaces. (English summary) **98k:51015**

51N25 Analytic geometry with other transformation groups

Alpers, Karsten Schwachdiskrete Bewegungsgruppen einer pseudoeuklidischen Ebene. (English summary) [Weakly discrete motion groups of a pseudo-Euclidean plane] **98g:51014**

Radziszewski, Krzysztof Reflections in equidistant hypersurfaces. I. Analytical investigations. **98j:51035**

— Reflections in equidistant hypersurfaces. II. Geometric characterization of the group generated by reflections. **98j:51036**

Sachs, Hans *see* **Šćurić-Čudovan, Vlasta, 98m:51023**

Šćurić-Čudovan, Vlasta (*with* Sachs, Hans) Klassifikationstheorie der Kegelschnittbüschel vom Typ IV der isotropen Ebene. I. (English and Croatian summaries) [Classification theory of pencils of conics of type IV of the isotropic plane. I] **98m:51023**

Szirovicza, Vlasta Berührbüschel von Kegelschnitten der isotropen Ebene mit konjugiert-komplexen Grundpunkten. (English and Croatian summaries) [Tangential pencil of conics of the isotropic plane with complex-conjugate basic points] **98m:51024**

Tölke, Jürgen Zu den kongruenten Kreisen eines linearen parabolischen Kreissystems der isotropen Ebene. [On the congruent circles of a linear parabolic circular system of the isotropic plane] **98m:51025**

— To the isotropic analogue of the theorem of Abramescu. **98i:51016**

— Zur Geometrie der Tridens-Kurven der isotropen Ebene. (English summary) [On the geometry of Tridens curves in the isotropic plane] **98m:51026**

Zhou, Zhan A method for finding n-dimensional Möbius transformations. (Chinese. English and Chinese summaries) **98a:51024**

Items with secondary classifications in 51N25

(Hua, Luo Geng) *see* **Wan, Zhe-xian, 98a:51001**

Mészáros, Ferenc Flächen 2. Ordnung im pseudoisotropen Raum $I_3^{\{1\}P}$. (English and Croatian summaries) [Quadric surfaces in pseudoisotropic space $I_3^{\{1\}P}$] **98c:53013**

Wan, Zhe-xian ★ Geometry of matrices. (English summary) **98a:51001**

51N30 Geometry of classical groups [see also 20Gxx, 14L35]

Items with secondary classifications in 51N30

Coxeter, Harold Scott MacDonald The trigonometry of hyperbolic tessellations. (English summary) **98c:51014**

Gromov, N. A. (*with* Moskalyuk, S. S.) Symplectic groups in Cayley-Klein spaces. (English summary) **98j:20067**

— (*with* Moskalyuk, S. S.) Classification of transitions between groups in Cayley-Klein spaces and kinematic groups. (English summary) **98j:20068**

Knüppel, Frieder The length-problem for Eichler-transformations. (English summary) **98j:51023**

Moskalyuk, S. S. *see* **Gromov, N. A., 98j:20067** *and* **98j:20068**

Stachel, Hellmuth A family of multiply decomposable Euclidean motions. (English summary) **98j:51029**

51N35 Questions of classical algebraic geometry [see also 14Nxx]

Degen, Wendelin L. F. The types of triangular Bézier surfaces. (English summary) **98h:51033**

Lankosz, Adam Polar-stereographic mapping of the space $\mathbf{R}^3$ onto a plane. (Polish. English and Polish summaries) **98d:51020**

Sliepčević, Ana Isogonale Transformation und Fokalkurve einer Kegelschnittschar. (English and Croatian summaries) [Isogonal transformation and focal curve of a range of conics]

Items with secondary classifications in 51N35

Arrondo, Enrique (*with* Sendra, Juana; Sendra, J. Rafael) Parametric generalized offsets to hypersurfaces. (English summary) **98m:14057**

Fillmore, Jay P. (*with* Paluszny, Marco) On the geometry of a quadratic form: pencils and the Apollonius contact problem. (English and Spanish summaries) **98e:51033**

Goldman, Ronald *see* **Wang, Wenping; et al., 98j:68167**

Joe, Barry *see* **Wang, Wenping; et al., 98j:68167**

Paluszny, Marco *see* **Fillmore, Jay P., 98e:51033**

Sendra, J. Rafael *see* **Arrondo, Enrique; et al., 98m:14057**

Sendra, Juana *see* **Arrondo, Enrique; et al., 98m:14057**

Wang, Wenping (*with* Joe, Barry; Goldman, Ronald) Rational quadratic parameterizations of quadrics. (English summary) **98j:68167**

51N99 None of the above, but in this section

Brandstätter, G. Fundamentals of algebro-projective photogrammetry.

Liang, Feng *see* **Yan, Wei Qi**

Yan, Wei Qi (*with* Liang, Feng) The application of the Morphy technique for plane geometric figures to design constructions in solid geometry. (Chinese. English and Chinese summaries)

51P05 Geometry and physics

Devito, Carl L. A non-linear model for time. (English summary) **98g:51015**

Koshelev, Misha We can measure any distance or any amount of time with a most primitive clock and a most primitive ruler: a space-time version of Tyszka's result. (English summary) **98m:51027**

Kreinovich, Vladik (*with* Wojciechowski, Piotr J.) Geometric approach to quark confinement. (English summary) **98f:51036**

Lambert, Dominique Les nombres complexes hyperboliques: des complexes qui nous laissent perplexes. [Hyperbolic complex numbers: complexes that leave us perplexed] **98b:51027**

Lasenby, Joan Geometric algebra: applications in engineering. (*see* **98f:15022**)

Pitucco, A. P. Some elementary geometric aspects in extending the dimension of the space of instants. (English summary) **98h:51034**

– Some elementary geometric aspects in extending the dimension of the space of instants [MR 98h:51034]. (English summary) (*see* **98m:83002**)

Stuckey, W. M. Defining spacetime. (English summary) **98h:51035**

– Defining spacetime. (English summary) (*see* **98m:83002**)

Ungar, Abraham A. Midpoints in gyrogroups. (English summary) **98a:51025**

Wojciechowski, Piotr J. *see* **Kreinovich, Vladik, 98f:51036**

Items with secondary classifications in 51P05

Duma, Adrian Zeeman's theorem in nondecomposable spaces. (English summary) **98j:46019**

Fei, Bao Jun (*with* Li, Zhi Gang[2]) Relativistic velocity and hyperbolic geometry. (English and French summaries)

Im, Bok-Hee *see* **Park, Won-Sun; et al., 98a:51003**

Kim, Pyeong-Ju *see* **Park, Won-Sun; et al., 98a:51003**

Li, Zhi Gang[2] *see* **Fei, Bao Jun**

Park, Won-Sun (*with* Kim, Pyeong-Ju; Im, Bok-Hee) Centralizers of elements of the future cone in the Minkowski world. **98a:51003**

Schutz, John W. ★ Independent axioms for Minkowski space-time. (English summary) **98m:51004**

Ungar, Abraham A. Thomas precession: its underlying gyrogroup axioms and their use in hyperbolic geometry and relativistic physics. (English summary) **98k:83002**

52–XX Convex and discrete geometry

52–01 Instructional exposition (textbooks, tutorial papers, etc.)

Boltyanskii, Vladimir Grigor'evich (*with* Martini, Horst; Soltan, Petru S.) ★ Excursions into combinatorial geometry. (English summary) **98b:52001**
Martini, Horst *see* **Boltyanskii, Vladimir Grigor'evich; et al., 98b:52001**
Soltan, Petru S. *see* **Boltyanskii, Vladimir Grigor'evich; et al., 98b:52001**
Webster, Roger ★ Convexity. (English summary) **98h:52001**

Items with secondary classifications in 52–01

Gay, David A. ★ Geometry by discovery. (English summary) **98f:51001**

52–02 Research exposition (monographs, survey articles)

Deza, Michel-Marie (*with* Laurent, Monique) ★ Geometry of cuts and metrics. (English summary) **98g:52001**
(Erdős, Paul[1]) *see* **Soifer, Alexander** *and* **(98h:05002)**
Gruber, Peter Manfred Basic problems and recent progress in convex geometry. **98j:52001**
Laurent, Monique *see* **Deza, Michel-Marie, 98g:52001**
Soifer, Alexander In memory of Paul Erdős: our joint problems in combinatorial geometry. I. (*see* **98h:05002**)
— In memory of Paul Erdős: our joint problems in combinatorial geometry. II. (English summary)
— In memory of Paul Erdős: our joint problems in combinatorial geometry. I.

Items with secondary classifications in 52–02

Boltyanskii, Vladimir Grigor'evich (*with* Martini, Horst; Soltan, Petru S.) ★ Excursions into combinatorial geometry. (English summary) **98b:52001**
Goodey, Paul (*with* Schneider, Rolf; Weil, Wolfgang) Projection functions of convex bodies. (English summary) **98k:52020**
Martini, Horst *see* **Boltyanskii, Vladimir Grigor'evich; et al., 98b:52001**
Schneider, Rolf *see* **Goodey, Paul; et al., 98k:52020**
Soltan, Petru S. *see* **Boltyanskii, Vladimir Grigor'evich; et al., 98b:52001**
Weil, Wolfgang *see* **Goodey, Paul; et al., 98k:52020**
Zong, Chuan Ming The kissing numbers of convex bodies—a brief survey. **98k:52048**

52–03 Historical (must also be assigned at least one classification number from Section 01)

Allan, Nelo A brief history of polyhedra. (Portuguese. Portuguese summary) (*see* **98g:01010**)

Items with secondary classifications in 52–03

(Barbaro, Daniele) *see* **Field, J. V., 98f:01016**
(Dürer, Albrecht) *see* **Field, J. V., 98f:01016**
Field, J. V. Rediscovering the Archimedean polyhedra: Piero della Francesca, Luca Pacioli, Leonardo da Vinci, Albrecht Dürer, Daniele Barbaro, and Johannes Kepler. **98f:01016**
(della Francesca, Piero) *see* **Field, J. V., 98f:01016**
(Kepler, Johannes) *see* **Field, J. V., 98f:01016**
(Pacioli, Luca) *see* **Field, J. V., 98f:01016**
(da Vinci, Leonardo) *see* **Field, J. V., 98f:01016**

52–06 Proceedings, conferences, collections, etc.

(Bárány, Imre) *see* **Intuitive geometry, 98c:52001**
(Bezdek, András) *see* **Geometry Festival, 98i:52001**
(Bezdek, Károly) *see* **Geometry Festival, 98i:52001**
(Böröczky, Károly, Jr.) *see* **Intuitive geometry, 98c:52001**
(Moody, Robert V.) *see* **Mathematics of long-range aperiodic order, 98a:52001**

Items listed otherwise than by author

Budapest ★ Intuitive geometry. **98c:52001**
— ★ 3rd Geometry Festival: an International Conference on Packings, Coverings and Tilings. **98i:52001**
Conference:
Intuitive Geometry ★ Intuitive geometry. **98c:52001**
Packings, Coverings and Tilings ★ 3rd Geometry Festival: an International Conference on Packings, Coverings and Tilings. **98i:52001**
Geometry Festival ★ 3rd Geometry Festival: an International Conference on Packings, Coverings and Tilings. **98i:52001**
Intuitive geometry ★ Intuitive geometry. **98c:52001**
Mathematics of long-range aperiodic order ★ The mathematics of long-range aperiodic order. **98a:52001**
NATO Advanced Study Institute:
Mathematics of Long-range Aperiodic Order ★ The mathematics of long-range aperiodic order. **98a:52001**
Waterloo, ON ★ The mathematics of long-range aperiodic order. **98a:52001**

Items with secondary classifications in 52–06

(García López de Lacalle, Jesús) *see* **Conference: Computational Geometry, 98f:68272**
(Levy, Silvio) *see* **Flavors of geometry, 98g:00024**
(Ramos Alonso, Pedro A.) *see* **Conference: Computational Geometry, 98f:68272**
(Stoka, M. I.) *see* **Conference: Stochastic Geometry, Convex Bodies and Empirical Measures, 98h:00026**

Items listed otherwise than by author

Agrigento ★ II International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". **98h:00026**
Conference:
Computational Geometry ★ VII Encuentros de Geometría Computacional. (Spanish) [VII Conference on Computational Geometry] **98f:68272**
Stochastic Geometry, Convex Bodies and Empirical Measures ★ II International Conference in "Stochastic Geometry, Convex Bodies and Empirical Measures". **98h:00026**
Flavors of geometry ★ Flavors of geometry. **98g:00024**
Madrid ★ VII Encuentros de Geometría Computacional. (Spanish) [VII Conference on Computational Geometry] **98f:68272**

52Axx General convexity

52A01 Axiomatic and generalized convexity

Chepoi, V. D. (*with* Fichet, Bernard) A note on circular decomposable metrics. (English summary) **98m:52001**
Fichet, Bernard *see* **Chepoi, V. D., 98m:52001**
Krzyszkowski, Janusz Generalized convex sets. (English summary) **98j:52002**
Nachbin, Leopoldo Convex sets, convex cones, affine spaces and affine cones. (English summary) **98g:52002**
Rolewicz, Stefan Locally monotone multifunctions in spaces without linearity. (English summary) **98k:52001**
Znamenskaya, L. N. *see* **Znamenskiĭ, S. V., 98k:52002**
Znamenskiĭ, S. V. (*with* Znamenskaya, L. N.) Projective convexity in $\mathbf{CP}^n$. (Russian. Russian summary) **98k:52002**

Items with secondary classifications in 52A01

Kleisli, Heinrich (*with* Röhrl, Helmut) Convexity theories. 0. Fin. Foundations. (English summary) **98b:18008**
Nykyforchyn, O. R. Semiconvex compacta. (English summary) **98j:54015**
Röhrl, Helmut *see* **Kleisli, Heinrich, 98b:18008**
(Rubinov, Aleksandr M.) *see* **Singer, Ivan, 98k:49002**
Singer, Ivan ★ Abstract convex analysis. **98k:49002**
van de Vel, M. Collapsible polyhedra and median spaces. (English summary) **98k:57041**

52A05 Convex sets without dimension restrictions

Chandra, Prabhat (*with* Kumar, Abhay) On midpoint convex set and midpoint convex hull of a set in a linear space. (English summary)
Kumar, Abhay *see* **Chandra, Prabhat**

Items with secondary classifications in 52A05

Azé, Dominique (*with* Lucchetti, Roberto) Stability of supporting and exposing elements of convex sets in Banach spaces. (English summary) **98g:46015**
Börger, Reinhard (*with* Kemper, Ralf) A cogenerator for preseparated superconvex spaces. (English summary) **98g:46108**
Cain, Bryan (*with* Hershkowitz, Daniel; Schneider, Hans) Theorems of the alternative for cones and Lyapunov regularity of matrices. (English summary) **98m:46002**
Hershkowitz, Daniel *see* **Cain, Bryan; et al., 98m:46002**
Kemper, Ralf *see* **Börger, Reinhard, 98g:46108**
Lucchetti, Roberto *see* **Azé, Dominique, 98g:46015**
Meng, Xiao Qing Convex sets and a metric for them. (Chinese. English and Chinese summaries) **98b:46095**
Roth, Walter A uniform boundedness theorem for locally convex cones. (English summary) **98j:46002**
Schneider, Hans *see* **Cain, Bryan; et al., 98m:46002**

52A07 Convex sets in topological vector spaces [see also 46A55]

Bálaj, Mircea m-families and common transversals. (English summary) **98a:52002**
— Intersectional properties of certain families of sets with convex union. (*see* **98g:41001**)
Breckner, Wolfgang W. (*with* Kassay, Gábor) A systematization of convexity concepts for sets and functions. (English summary) **98h:52002**
Grzybowski, Jerzy A note on summands of compact convex sets. (English summary) **98c:52002**
— (*with* Urbański, R.) Minimal pairs of bounded closed convex sets. (English summary) **98k:52003**
Kassay, Gábor *see* **Breckner, Wolfgang W., 98h:52002**
Levin, Vladimir L. Dual representations of convex bodies and of their polars. (Russian) **98b:52002**
Urbański, R. *see* **Grzybowski, Jerzy, 98k:52003**

Items with secondary classifications in 52A07

Cel, J. An optimal Krasnosel'skiĭ-type theorem for an open starshaped set. (English summary) **98h:52009**
Ostrovskiĭ, M. I. Generalization of projection constants: sufficient enlargements. **98i:46013**
Roth, Walter Real and complex linear extensions for locally convex cones. (English summary) **98k:46010**

52A10 Convex sets in 2 dimensions (including convex curves) [see also 53A04]

Awyong, Poh Wah Convex sets with lattice point constraints.
Bencze, Mihály Noncongruent convex polygons which have equal perimeters and areas.
Capoyleas, Vasilis On the area of the intersection of disks in the plane. (English summary) **98b:52003**
Chai, Y. D. *see* **Kim, Yong Il, 98g:52003**
Cieślak, Waldemar Regular polygons circumscribing a convex body. (English summary) **98k:52004**

Dragan, S. (*with* Revenko, S.; Soltan, V. P.) On Gallai's problem for congruent circles. **98j:52003**
El-Kholy, E. M. Convex isometric folding. (English summary) **98e:52001**
Grenov, A. I. *see* **Tuzikov, A. V.; et al., 98a:52004**
Groemer, H. On the girth of convex bodies. (English summary) **98d:52001**
Kaiser, Mark J. The critical point and related symmetry measures of a planar convex set. (English summary) **98i:52002**
Kim, Yong Il (*with* Chai, Y. D.) Geometric properties of curves in the Minkowski plane. (English summary) **98g:52003**
Kripfganz, Anita An isoperimetric partition problem. (English summary) **98g:52004**
Margolin, G. L. *see* **Tuzikov, A. V.; et al., 98a:52004**
Martini, Horst The three-circles theorem, Clifford configurations, and equilateral zonotopes. (English summary) **98i:52003**
Mayer-Foulkes, David Immobilization of smooth convex figures: some extensions. (English summary) **98h:52003**
Mielczarek, G. On extreme convex subsets of the plane. (English summary) **98m:52002**
Rabinowitz, Stanley A polynomial curve of constant width. **98d:52002**
Revenko, S. *see* **Dragan, S.; et al., 98j:52003**
Rychlik, Marek R. A complete solution to the equichordal point problem of Fujiwara, Blaschke, Rothe and Weitzenböck. (English summary) **98g:52005**
Scott, P. R. Regular polygons and a propellor problem for convex sets in the plane. (English summary) **98c:52003**
Sedykh, V. D. A theorem on four support vertices of a polygonal line. (Russian) **98a:52003**
Soltan, V. P. (*with* Szabó, László[2]; Vásárhelyi, Éva) Primitive illumination systems for families of convex bodies in the plane. (English summary) **98i:52004**
— *see also* **Dragan, S.; et al., 98j:52003**
Szabó, László[2] *see* **Soltan, V. P.; et al., 98i:52004**
Tuzikov, A. V. (*with* Margolin, G. L.; Grenov, A. I.) Convex set symmetry measurement via Minkowski addition. (English summary) **98a:52004**
Vásárhelyi, Éva *see* **Soltan, V. P.; et al., 98i:52004**
Werner, Elisabeth The illumination body of almost polygonal bodies. (English summary) **98b:52006**

Items with secondary classifications in 52A10

Aronov, Boris (*with* Sharir, Micha) The common exterior of convex polygons in the plane. (English summary) **98i:52017**
Bjelica, Momčilo Pedals, autoroulettes and Steiner's theorem. (English summary) **98j:53002**
Chai, Y. D. (*with* Kim, Yong Il) Curves of constant relative breadth. (English summary) **98k:52010**
Erdős, Paul[1] (*with* Makai, Endre, Jr.; Vincze, István) On the best approximating ellipse containing a plane convex body. **98d:52007**
Gruber, Peter Manfred Stability of Blaschke's characterization of ellipsoids and Radon norms. (English summary) **98d:52005**
Gyachyauskas, Ê. The Sylvester problem and random chords. (Russian. Lithuanian summary) **98j:52007**
Kim, Yong Il *see* **Chai, Y. D., 98k:52010**
Lagarias, Jeffrey C. (*with* Richardson, Thomas J.) Convexity and the average curvature of plane curves. (English summary) **98f:52007**
Makai, Endre, Jr. *see* **Erdős, Paul[1]; et al., 98d:52007**
Martini, Horst (*with* Soltan, V. P.) Minimum convex partition of polygonal domains by guillotine cuts. (English summary) **98m:52025**
Richardson, Thomas J. *see* **Lagarias, Jeffrey C., 98f:52007**
Sharir, Micha *see* **Aronov, Boris, 98i:52017**
Soltan, V. P. *see* **Martini, Horst, 98m:52025**
Vincze, István *see* **Erdős, Paul[1]; et al., 98d:52007**

52A15 Convex sets in 3 dimensions (including convex surfaces) [see also 53A05, 53C45]

Bezdek, Károly (*with* Bisztriczky, Tibor) A proof of Hadwiger's covering conjecture for dual cyclic polytopes. (English summary) **98k:52005**
Bisztriczky, Tibor *see* **Bezdek, Károly, 98k:52005**
Colesanti, Andrea (*with* Pucci, Carlo) Qualitative and quantitative results for sets of singular points of convex bodies. (English summary) **98c:52004**
Degen, Wendelin L. F. The cut locus of an ellipsoid. (English summary) **98j:52004**
Medyanik, A. I. Closed convex surfaces in E^3 with given functions of curvatures. (Russian. English, Russian and Ukrainian summaries) **98k:52006**
Pucci, Carlo *see* **Colesanti, Andrea, 98c:52004**
Zamfirescu, Tudor Farthest points on convex surfaces. **98m:52003**
— Extreme points of the distance function on convex surfaces. (English summary) **98i:52005**

Items with secondary classifications in 52A15

Dubejko, Tomasz Approximation of analytic functions with prescribed boundary conditions by circle-packing maps. (English summary) **98e:30042**
Groemer, H. On the girth of convex bodies. (English summary) **98d:52001**
Lassak, Marek Illumination of three-dimensional convex bodies of constant width. (English summary) **98g:52013**
Zalgaller, V. A. The problem of the shortest space curve of unit width. (Russian. English, Russian and Ukrainian summaries) **98i:52012**
— Two problems on shortest paths on a convex surface. (Russian. English, Russian and Ukrainian summaries) **98k:52022**

52A20 Convex sets in n dimensions (including convex hypersurfaces) [see also 53A07, 53C45]

Alesker, S. A remark on the Szarek-Talagrand theorem. (English summary) **98g:52006**
Avvakumov, S. N. Smooth approximation of convex compact sets. (Russian. English and Russian summaries) **98i:52006**
Bair, J. (*with* Hansen, Guillermo Leonardo) The infinite shadow of a convex set. (English summary) **98c:52005**
Benoist, Joël Espace de liberté d'un sous-ensemble convexe de $\mathbf{R}^n$. (English and French summaries) [Space of freedom of a convex subset in $\mathbf{R}^n$] **98g:52007**
Betke, U. (*with* Henk, M.; Tsintsifa, L.) Inradii of simplices. (English summary) **98d:52003**
Boltyanskiĭ, Vladimir Grigor'evich Delaying systems for convex bodies. (Russian. Russian summary) **98e:52002**
Braß, Peter (*with* Herburt, Irmina) On point sets fixing a convex body from within. (English summary) **98d:52004**
Crăciun, Gheorghe (*with* Zamfirescu, Tudor) The dimension print of most convex surfaces. (English summary) **98f:52001**
Diamond, Phillip Morris (*with* Kloeden, Peter E.; Rubinov, Aleksandr M.; Vladimirov, A. A.) Comparative properties of three metrics in the space of compact convex sets. (English summary) **98m:52004**
Fallert, Hermann (*with* Goodey, Paul; Weil, Wolfgang) Spherical projections and centrally symmetric sets. **98j:52005**
Fradelizi, M. Sections of convex bodies through their centroid. (English summary) **98h:52004**
Giannopoulos, Apostolos A. (*with* Milman, Vitali D.) How small can the intersection of a few rotations of a symmetric convex body be? (English and French summaries) **98e:52003**
Goodey, Paul *see* **Fallert, Hermann; et al., 98j:52005**
Gruber, Peter Manfred Stability of Blaschke's characterization of ellipsoids and Radon norms. (English summary) **98d:52005**
Hansen, Guillermo Leonardo *see* **Bair, J., 98c:52005**
Henk, M. *see* **Betke, U.; et al., 98d:52003**
Herburt, Irmina *see* **Braß, Peter, 98d:52004**
Kloeden, Peter E. *see* **Diamond, Phillip Morris; et al., 98m:52004**
Koldobskiĭ, A. L. Intersection bodies and the Busemann-Petty problem. (English and French summaries) **98k:52007**
Madden, T. M. *see* **do Rosário Pinto, Maria, 98k:52009**
Makeev, V. V. Affine-inscribed and affine-circumscribed polygons and polyhedra. (Russian. Russian summary) **98b:52004**
Martínez-Legaz, Juan-Enrique Lexicographical characterization of the faces of convex sets. (English summary) **98j:52006**
Martinez-Maure, Yves Hedgehogs of constant width and equichordal points. (English summary) **98m:52005**
Martynchik, V. N. *see* **Metel'skiĭ, N. N.**
Metel'skiĭ, N. N. (*with* Martynchik, V. N.) The cone of directions of convexity of closed sets in $\mathbf{R}^n$. (Russian. English and Russian summaries)
Milman, Vitali D. *see* **Giannopoulos, Apostolos A., 98e:52003**
Montejano, Luis Some results about Minkowski addition and difference. **98c:52006**
Pallaschke, Diethard (*with* Urbańska, W.; Urbański, R.) C-minimal pairs of compact convex sets. (English summary) **98h:52005**
Polovinkin, E. S. Generalization of Carathéodory and Krein-Milman theorems for strongly convex sets. (Russian) **98k:52008**
do Rosário Pinto, Maria (*with* Madden, T. M.) The symmetry group of perfect solids. (English summary) **98k:52009**
Rubinov, Aleksandr M. *see* **Diamond, Phillip Morris; et al., 98m:52004**
Schneider, Rolf On the determination of convex bodies by projection and girth functions. (English summary) **98m:52006**
Schütt, Carsten Floating body, illumination body, and polytopal approximation. (English and French summaries) **98b:52005**
Tsintsifa, L. *see* **Betke, U.; et al., 98d:52003**
Tsolomitis, Antonis Convolution bodies and their limiting behavior. **98c:52007**
Urbańska, W. *see* **Pallaschke, Diethard; et al., 98h:52005**
Urbański, R. *see* **Pallaschke, Diethard; et al., 98h:52005**
Vladimirov, A. A. *see* **Diamond, Phillip Morris; et al., 98m:52004**
Weil, Wolfgang *see* **Fallert, Hermann; et al., 98j:52005**
Wiernowolski, Michał Minimality in asymmetry classes. (English summary) **98h:52006**
Zamfirescu, Tudor *see* **Crăciun, Gheorghe, 98f:52001**

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Aban'kin, A. E. *see* **Demyanov, V. F., 98k:49026**
Beltagy, M. On strictly convex bodies. (English summary) **98f:53048**
Bezdek, Károly (*with* Bisztriczky, Tibor) A proof of Hadwiger's covering conjecture for dual cyclic polytopes. (English summary) **98k:52005**
Bisztriczky, Tibor *see* **Bezdek, Károly, 98k:52005**
Cernea, Aurelian (*with* Mirică, Ştefan) Quasitangent differentiability and derived cones to reachable sets of control systems. (English summary) **98k:49023**
Cheon, Gi-Sang (*with* Song, Seok-Zun) On the extreme points on the majorization polytope $\Omega_3(\mathbf{y} \prec \mathbf{x})$. (English summary) **98k:15031**
Dekster, B. V. Thickness of a simplex whose edge lengths fall within a prescribed range. (English summary) **98j:52010**
Demyanov, V. F. (*with* Aban'kin, A. E.) Conically equivalent pairs of convex sets. (English summary) **98k:49026**
Goodey, Paul Radon transforms of projection functions. (English summary) **98k:52013**
Groemer, H. On the determination of convex bodies by translates of their projections. (English summary) **98h:52007**
Gurgel, Maria Angela C. M. (*with* Wakabayashi, Yoshiko) Adjacency of vertices of the complete pre-order polytope. (English summary) **98f:52010**
Hug, Daniel Contributions to affine surface area. (English summary) **98d:52009**
Katona, G. O. H. Extremal problems for finite sets and convex hulls—a survey. (English summary) **98a:05148**
Lonke, Yossi On the degree of generating distributions of centrally symmetric convex bodies. (English summary) **98i:52014**
— On zonoids whose polars are zonoids. (English summary) **98m:52007**
Martini, Horst The three-circles theorem, Clifford configurations, and equilateral zonotopes. (English summary) **98i:52003**

Milman, Vitali D. (*with* Schechtman, G.) Global versus local asymptotic theories of finite-dimensional normed spaces. **98m:46005**
Mirică, Ştefan *see* **Cernea, Aurelian**, **98k:49023**
Orlova, G. B. (*with* Silin, D. B.) Approximate calculation of the convex hull of a positive-homogeneous function. (Russian. Russian summary) **98m:65021**
Pallaschke, Diethard (*with* Urbański, R.) Quasidifferentiable functions and pairs of convex compact sets. (English summary) **98j:49026**
Romanovskiĭ, I. V. A simple proof of the Birkhoff-von Neumann theorem on bistochastic matrices. **98c:15067**
Schechtman, G. *see* **Milman, Vitali D.**, **98m:46005**
Silin, D. B. *see* **Orlova, G. B.**, **98m:65021**
Song, Seok-Zun *see* **Cheon, Gi-Sang**, **98k:15031**
Urbański, R. *see* **Pallaschke, Diethard**, **98j:49026**
Wakabayashi, Yoshiko *see* **Gurgel, Maria Angela C. M.**, **98f:52010**
Webster, Roger ★ Convexity. (English summary) **98h:52001**

52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [see also 46Bxx]

Börner, Walter (*with* Richter, Christian) Entropy, capacity and arrangements on the cube. (English summary) **98g:52008**
Chai, Y. D. (*with* Kim, Yong Il) Curves of constant relative breadth. (English summary) **98k:52010**
Kim, Yong Il *see* **Chai, Y. D.**, **98k:52010**
Lonke, Yossi On zonoids whose polars are zonoids. (English summary) **98m:52007**
Richter, Christian *see* **Börner, Walter**, **98g:52008**

Items with secondary classifications in 52A21

Bernués, J. (*with* Peña, Ana) On the shape of p-convex hulls, $0 < p < 1$. **98b:46016**
Cieslik, Dietmar Using Hadwiger numbers in network design. (English summary) **98m:05042**
Fallert, Hermann (*with* Goodey, Paul; Weil, Wolfgang) Spherical projections and centrally symmetric sets. **98j:52005**
Gao, Ji An application of elementary geometry in functional analysis. **98a:46031**
Giannopoulos, Apostolos A. (*with* Milman, Vitali D.) Low M^*-estimates on coordinate subspaces. (English summary) **98f:46007**
Goodey, Paul *see* **Fallert, Hermann; et al.**, **98j:52005**
Lin, Pei-Kee The average distance property of Banach spaces. (English summary) **98e:46004**
Litvak, A. E. (*with* Milman, Vitali D.; Schechtman, G.) Averages of norms and behavior of families of projective caps on the sphere. (English and French summaries) **98f:46008**
Lonke, Yossi On the degree of generating distributions of centrally symmetric convex bodies. (English summary) **98i:52014**
Matoušek, Jiří On embedding expanders into l_p spaces. (English summary) **98k:46014**
Milman, Vitali D. *see* **Giannopoulos, Apostolos A.**, **98f:46007** *and* **Litvak, A. E.; et al.**, **98f:46008**
Peña, Ana *see* **Bernués, J.**, **98b:46016**
Schechtman, G. *see* **Litvak, A. E.; et al.**, **98f:46008**
Schneider, Rolf (*with* Wieacker, John André) Integral geometry in Minkowski spaces. (English summary) **98k:52015**
Weil, Wolfgang *see* **Fallert, Hermann; et al.**, **98j:52005**
Wieacker, John André *see* **Schneider, Rolf**, **98k:52015**

52A22 Random convex sets and integral geometry [see also 53C65, 60D05]

Aleman, Alexandru (*with* Stoka, M. I.; Zamfirescu, Tudor) Convex bodies instead of needles in Buffon's experiment. (English summary) **98k:52011**
Álvarez Paiva, Juan Carlos (*with* Gel′fand, Izrail′ Moiseevich; Smirnov, Mikhail M.) Crofton densities, symplectic geometry and Hilbert's fourth problem. (English summary) **98a:52005**
Ayari, S. (*with* Dubuc, S.) La formule de Cauchy sur la longueur d'une courbe. (English and French summaries) [The Cauchy formula for the length of a curve] **98d:52006**
Baryshnikov, Yulii Maratovich Gaussian samples, regular simplices, and exchangeability. (English summary) **98a:52006**
Buchta, Christian (*with* Reitzner, Matthias) Equiaffine inner parallel curves of a plane convex body and the convex hulls of randomly chosen points. (English summary) **98f:52002**
Chai, Y. D. A new lower bound for the integral of the $(N-2)$nd mean curvature over the boundary of a compact domain in $\mathbf{R}^N$. (English summary) **98f:52003**
Dubuc, S. *see* **Ayari, S.**, **98d:52006**
Dunbar, Steven R. The average distance between points in geometric figures. **98a:52007**
Gel′fand, Izrail′ Moiseevich *see* **Álvarez Paiva, Juan Carlos; et al.**, **98a:52005**
Glasauer, Stefan A generalization of intersection formulae of integral geometry. (English summary) **98k:52012**
Goodey, Paul Radon transforms of projection functions. (English summary) **98k:52013**
Groemer, H. On the determination of convex bodies by translates of their projections. (English summary) **98h:52007**
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— Fragments on the Blaschke problem. (Russian. Lithuanian summary) **98k:52014**
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Pettineo, Maria A Buffon type problem for triangular lattices. (English summary) **98m:60018**
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52A27 Approximation by convex sets

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52A30 Variants of convex sets (star-shaped, (m, n)-convex, etc.)

Bezdek, András On the Hadwiger number of a starlike disk. (English summary) **98h:52008**
Cel, J. An optimal Krasnosel′skiĭ-type theorem for an open starshaped set. (English summary) **98h:52009**
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52A35 Helly-type theorems

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Szabó, László[2] Recent results on illumination problems. **98h:52015**
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Hoffmann, Frank (*with* Kriegel, Klaus) A graph-coloring result and its consequences for polygon-guarding problems. (English summary) **98h:05076**
Kriegel, Klaus *see* **Hoffmann, Frank, 98h:05076**
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52A38 Length, area, volume [see also 26B15, 28A75, 49Q20]

Brannen, Noah Samuel Volumes of projection bodies. (English summary) **98e:52005**
Colesanti, Andrea Blaschke decomposable convex bodies. (*see* **98h:00026**)
Diskant, V. I. Stability of the solution of an isoperimetric problem in Minkowski geometry. (Russian. English, Russian and Ukrainian summaries) **98h:52016**
Dolzhenkov, V. A. Extremal problems for surfaces with bounded absolute mean integral curvature in an n-dimensional space. (Russian. English, Russian and Ukrainian summaries) **98m:52010**
Hann, Kathy Normals in a Minkowski plane. (English summary) **98b:52009**
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Kaiser, Mark J. (Deterministic) algorithms that compute the volume of polytopes. (English summary) **98h:52017**
Schmidt, Frank W. (*with* Simion, Rodica) Some geometric probability problems involving the Eulerian numbers. (English summary) **98b:52010**
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Diskant, V. I. Generalization of the Bonnesen inequalities in Minkowski geometry. (Russian. English, Russian and Ukrainian summaries) **98i:52010**
— Stability of the solution of the isodiameter problem in Minkowski geometry. (Russian. English, Russian and Ukrainian summaries) **98m:51003**
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Ku, Hsu-Tung (*with* Ku, Mei-Chin; Zhang, Xin-Min) Inequalities for symmetric means, symmetric harmonic means, and their applications. (English summary) **98k:26021**
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Schött, Carsten Floating body, illumination body, and polytopal approximation. (English and French summaries) **98b:52005**
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Werner, Elisabeth The illumination body of almost polygonal bodies. (English summary) **98b:52006**
Zalgaller, V. A. The problem of the shortest space curve of unit width. (Russian. English, Russian and Ukrainian summaries) **98i:52012**
Zhang, Jianguo *see* **Ding, Ren; et al., 98a:52027**
Zhang, Xin-Min Bonnesen-style inequalities and pseudo-perimeters for polygons. (English summary) **98j:52012**
— *see also* **Ku, Hsu-Tung; et al., 98k:26021**

52A39 Mixed volumes and related topics

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Diskant, V. I. Generalization of the Bonnesen inequalities in Minkowski geometry. (Russian. English, Russian and Ukrainian summaries) **98i:52010**
— Stability of the solution of an isoperimetric problem in Minkowski geometry. (Russian. English, Russian and Ukrainian summaries) **98h:52016**
Fallert, Hermann (*with* Goodey, Paul; Weil, Wolfgang) Spherical projections and centrally symmetric sets. **98j:52005**
Gel'fond, O. A. Combinatorial coefficients and the mixed volume of polyhedra. (Russian) **98k:52028**
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Huber, Birkett (*with* Sturmfels, Bernd) Bernstein's theorem in affine space. (English summary) **98b:52014**
Kim, Yong Il (*with* Chai, Y. D.) Geometric properties of curves in the Minkowski plane. (English summary) **98g:52003**
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Sturmfels, Bernd *see* **Huber, Birkett, 98b:52014**

Webster, Roger ★ Convexity. (English summary) **98h:52001**
Weil, Wolfgang *see* **Fallert, Hermann; et al., 98j:52005**

52A40 Inequalities and extremum problems

Alarcon, Eberth G., II Area bounds in convex lattice polygons. **98k:52021**
Bencze, Mihály (*with* Popovici, Florin) A refinement of the Euler's inequality $R \geq 2r$.
Dar, Sean On the isotropic constant of non-symmetric convex bodies. (English summary) **98a:52012**
Dekster, B. V. Thickness of a simplex whose edge lengths fall within a prescribed range. (English summary) **98j:52010**
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Guo, Shu Guang Metric averaging of a simple parameter family of point sets on a sphere in hyperbolic space. (Chinese. English and Chinese summaries)
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Kawohl, Bernhard The opaque square and the opaque circle. **98f:52006**
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Zhang, Xin-Min Bonnesen-style inequalities and pseudo-perimeters for polygons. (English summary) **98j:52012**

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Betke, U. (*with* Henk, M.; Tsintsifa, L.) Inradii of simplices. (English summary) **98d:52003**
Bezdek, Károly (*with* Connelly, Robert) Minimal translation covers for sets of diameter 1. (English summary) **98k:52042**
Bishop, Richard L. *see* **Alexander, Stephanie B., 98h:53116**
Bobkov, S. G. (*with* Houdré, Christian) Characterization of Gaussian measures in terms of the isoperimetric property of half-spaces. (Russian. English and Russian summaries) **98e:60056**
Bőrőczky, Károly, Jr. Isoperimetric problems for polytopes with a given number of vertices. **98d:52021**
— Packings of four and five balls. (English summary) **98i:52024**
— (*with* Wills, J. M.) Finite sphere packings and critical radii. (English summary) **98i:52025**
— *see also* **Bőrőczky, Károly, Jr., 98d:52021**
Brannen, Noah Samuel Volumes of projection bodies. (English summary) **98e:52005**
Colesanti, Andrea Blaschke decomposable convex bodies. (*see* **98h:00026**)
Connelly, Robert *see* **Bezdek, Károly, 98k:52042**
Dalla, Leoni (*with* Tamvakis, N. K.) An isoperimetric inequality in the class of simplicial polytopes. (English summary) **98a:52025**
Dress, Andreas W. M. (*with* Yang, Lu; Zeng, Zhenbing) Heilbronn problem for six points in a planar convex body. (English summary) **98g:52012**
Dubickas, A. On the maximal product of distances between points on a sphere. (English and Lithuanian summaries) **98e:52015**
Gruber, Peter Manfred Stability of Blaschke's characterization of ellipsoids and Radon norms. (English summary) **98d:52005**
Hann, Kathy Normals in a Minkowski plane. (English summary) **98b:52009**
Henk, M. *see* **Betke, U.; et al., 98d:52003**
Hernández Cifre, M. A. (*with* Scott, P. R.; Segura Gomis, S.) On the centre of gravity and width of lattice-constrained convex sets in the plane. (English summary) **98k:52037**
Houdré, Christian *see* **Bobkov, S. G., 98e:60056**
Kaiser, Mark J. Some thoughts on generalized Weber location models. (English summary)
Kripfganz, Anita An isoperimetric partition problem. (English summary) **98g:52004**
Kroó, András (*with* Schmidt, Darrell) Some extremal problems for multivariate polynomials on convex bodies. (English summary) **98k:41045**
Ku, Hsu-Tung (*with* Ku, Mei-Chin; Zhang, Xin-Min) Inequalities for symmetric means, symmetric harmonic means, and their applications. (English summary) **98k:26021**
Ku, Mei-Chin *see* **Ku, Hsu-Tung; et al., 98k:26021**
Lang, Urs (*with* Schroeder, Viktor) Jung's theorem for Alexandrov spaces of curvature bounded above. (English summary) **98g:53059**
Moussaoui, Mohammed (*with* Volle, Michel) Quasicontinuity and united functions in convex duality theory. (English summary) **98k:49050**
Ramos, Edgar A. The number of extreme triples of a planar point set. (English summary) **98a:52010**
Sándor, József On some new geometric inequalities.
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Schroeder, Viktor *see* **Lang, Urs, 98g:53059**
Scott, P. R. *see* **Hernández Cifre, M. A.; et al., 98k:52037**
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Tamvakis, N. K. *see* **Dalla, Leoni, 98a:52025**
Tóth, Géza The shortest distance among points in general position. (English summary) **98e:52018**
Tsintsifa, L. *see* **Betke, U.; et al., 98d:52003**
Volle, Michel *see* **Moussaoui, Mohammed, 98k:49050**
Wills, J. M. *see* **Bőrőczky, Károly, Jr., 98i:52025**
Yang, Lu *see* **Dress, Andreas W. M.; et al., 98g:52012**
Zeng, Zhenbing *see* **Dress, Andreas W. M.; et al., 98g:52012**
Zhang, Xin-Min Schur-convex functions and isoperimetric inequalities. (English summary) **98d:26005**
— *see also* **Ku, Hsu-Tung; et al., 98k:26021**

52A41 Convex functions and convex programs [see also 26B25, 90C25]

Colesanti, Andrea A Steiner type formula for convex functions. (English summary) **98h:52018**
Kripfganz, Anita Favard's "fonction penetrante"—a roughly convex function. (English summary) **98b:52011**
Zalgaller, V. A. Distances to the two and three most distant points. (Russian. Russian summary) **98d:52011**

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— A generalization of Young's l^p inequality. (English summary) **98m:90099**
Breckner, Wolfgang W. (*with* Kassay, Gábor) A systematization of convexity concepts for sets and functions. (English summary) **98h:52002**
Butnariu, Dan (*with* Iusem, Alfredo Noel) Local moduli of convexity and their application to finding almost common fixed points of measurable families of operators. (English summary) **98m:46012**
Crouzeix, Jean-Pierre (*with* Ferland, J. A.; Zălinescu, C.) α-convex sets and strong quasiconvexity. (English summary) **98k:90078**
Demyanov, V. F. (*with* Pallaschke, Diethard) Point derivations for Lipschitz functions and Clarke's generalized derivative. (English summary) **98m:49036**
Fabian, Marián J. *see* **Borwein, Jonathan M.; et al., 98k:46019**
Ferland, J. A. *see* **Crouzeix, Jean-Pierre; et al., 98k:90078**
Güler, Osman On the self-concordance of the universal barrier function. (English summary) **98k:90072**
Gusić, Ivica Convex functions on lattice ordered groups. (English summary) **98m:26010**
Hoàng Xuân Phú Six kinds of roughly convex functions. (English summary) **98b:90109**
Iusem, Alfredo Noel *see* **Butnariu, Dan, 98m:46012**
Kassay, Gábor *see* **Breckner, Wolfgang W., 98h:52002**
Khachiyan, Leonid *see* **Porkolab, Lorant, 98e:90168**
Krzyszkowski, Janusz Generalized convex sets. (English summary) **98j:52002**
Melachrinoudis, Emanuel An analytical solution to the minimum L_p-norm of a hyperplane. (English summary) **98f:90060**
Mond, Bertram (*with* Pečarić, Josip E.) Matrix inequalities for convex functions. (English summary) **98e:90119**
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Pečarić, Josip E. *see* **Mond, Bertram, 98e:90119**
Porkolab, Lorant (*with* Khachiyan, Leonid) On the complexity of semidefinite programs. (English summary) **98e:90168**
Rolewicz, Stefan Locally monotone multifunctions in spaces without linearity. (English summary) **98k:52001**
Rosenfeld, Azriel Visibility of "tame" terrain. (English summary) **98m:68279**
Seeger, Alberto Convex analysis of spectrally defined matrix functions. (English summary) **98h:49039**
Urbańska, W. *see* **Pallaschke, Diethard; et al., 98h:52005**
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Vanderwerff, Jon D. *see* **Borwein, Jonathan M.; et al., 98k:46019**
Zălinescu, C. *see* **Crouzeix, Jean-Pierre; et al., 98k:90078**

52A55 Spherical and hyperbolic convexity

Bridgeman, Martin Average curvature of convex curves in H^2. (English summary) **98c:52012**
Glasauer, Stefan Integral geometry of spherically convex bodies. **98a:52013**
Milka, A. D. Uniqueness theorems for spacelike convex polyhedra in a pseudo-Euclidean space. (Russian. English, Russian and Ukrainian summaries) **98m:52013**
Naveira, A. M. (*with* Tarrío, A.) Two problems on h-convex sets in the hyperbolic space. (English summary) **98g:52017**
Tarrío, A. *see* **Naveira, A. M., 98g:52017**
Vinberg, Ėrnest Borisovich On kaleidoscopes: a mathematician looks at them in all their dimensions. **98c:52013**
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Díaz, Raquel Non-convexity of the space of dihedral angles of hyperbolic polyhedra. (English and French summaries) **98m:52016**
Heppes, A. A note on the shortest partitioning nets of the 2-sphere. (English summary) **98h:52027**

52Bxx Polytopes and polyhedra

52B05 Combinatorial properties (number of faces, shortest paths, etc.) [see also 05Cxx]

Bier, Thomas Eine Charakterisierung zyklischer Polytope durch Kettenbrüche. (German summary) [A characterization of cyclic polytopes by continued fractions] **98k:52023**
Bigdeli-Jahed, Fariba Placing the d-cube in lexicographic order. (English summary) **98j:52014**
Bisztriczky, Tibor Ordinary $(2m+1)$-polytopes. (English summary) **98k:52024**
Blind, G. (*with* Blind, R.) Cubical 4-polytopes with few vertices. (English summary) **98g:52018**
Blind, R. *see* **Blind, G., 98g:52018**
Coxeter, Harold Scott MacDonald (*with* Fisher, J. Chris; Wilker, J. B.) Coordinates for the regular complex polygons. (English summary) **98b:52012**
Deza, Michel-Marie (*with* Shtogrin, M. I.) Isometric embeddings of semiregular polyhedra, partitions and their duals into hypercubes and cubic lattices. (Russian) **98d:52012**
— (*with* Grishukhin, V. P.) The skeleton of the 120-cell is not 5-gonal. (English summary) **98d:52013**
Fisher, J. Chris *see* **Coxeter, Harold Scott MacDonald; et al., 98b:52012**
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Hegyvári, Norbert (*with* Wintsche, Gergely) The rolling polyhedra. (English summary) **98k:52025**
Lagarias, Jeffrey C. (*with* Prabhu, Nagabhushana; Reeds, J. A.) The d-step conjecture and Gaussian elimination. (English summary) **98j:52015**
— (*with* Prabhu, Nagabhushana) Counting d-step paths in extremal Dantzig figures. (English summary) **98m:52014**
Nef, Walter A new look at Euler's theorem for polyhedra: a comment. **98c:52014**
Pach, János Folding and turning along geodesics in a convex surface. **98k:52026**
Poonen, Bjorn (*with* Rubinstein, Michael) The number of intersection points made by the diagonals of a regular polygon. (English summary) **98k:52027**
Prabhu, Nagabhushana *see* **Lagarias, Jeffrey C.; et al., 98j:52015** *and* **98m:52014**
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Rubinstein, Michael *see* **Poonen, Bjorn, 98k:52027**
Shevchenko, V. N. On the partition of a convex polytope into simplices without new vertices. (Russian) **98m:52015**
Shtogrin, M. I. *see* **Deza, Michel-Marie, 98d:52012**
Webber, William T. Monohedral idemvalent polyhedra that are toroids. (English summary) **98j:52016**
Wilker, J. B. *see* **Coxeter, Harold Scott MacDonald; et al., 98b:52012**
Wintsche, Gergely *see* **Hegyvári, Norbert, 98k:52025**

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Aronov, Boris (*with* Sharir, Micha; Tagansky, Boaz) The union of convex polyhedra in three dimensions. (English summary) **98m:52021**
— (*with* Sharir, Micha) On translational motion planning of a convex polyhedron in 3-space. (English summary) **98m:52022**
— *see also* **Agarwal, Pankaj K.; et al., 98m:52020**
Billera, Louis J. (*with* Ehrenborg, Richard; Readdy, Margaret A.) The c-$2d$-index of oriented matroids. (English summary) **98h:05051**
Ehrenborg, Richard *see* **Billera, Louis J.; et al., 98h:05051**
Kapoor, Sanjiv (*with* Maheshwari, Sachindra Nath; Mitchell, Joseph S. B.) An efficient algorithm for Euclidean shortest paths among polygonal obstacles in the plane. (English summary) **98k:52035**
Kortenkamp, U. H. Every simplicial polytope with at most $d+4$ vertices is a quotient of a neighborly polytope. (English summary) **98h:52024**
Lawrence, Jim A short proof of Euler's relation for convex polytopes. (English summary) **98k:52030**
Maheshwari, Sachindra Nath *see* **Kapoor, Sanjiv; et al., 98k:52035**
McMullen, P. Polytope algebras, tensor weights and piecewise polynomials. (English summary) **98h:52025**
Mitchell, Joseph S. B. *see* **Kapoor, Sanjiv; et al., 98k:52035**
O'Rourke, Joseph *see* **Agarwal, Pankaj K.; et al., 98m:52020**
Rambau, Jörg Triangulations of cyclic polytopes and higher Bruhat orders. (English summary) **98i:52019**
Readdy, Margaret A. *see* **Billera, Louis J.; et al., 98h:05051**
Schevon, Catherine A. *see* **Agarwal, Pankaj K.; et al., 98m:52020**
Sharir, Micha *see* **Aronov, Boris; et al., 98m:52021** *and* **98m:52022**
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52B10 Three-dimensional polytopes

Cromwell, Peter R. ★ Polyhedra. **98j:52017**
Díaz, Raquel Non-convexity of the space of dihedral angles of hyperbolic polyhedra. (English and French summaries) **98m:52016**
Grünbaum, Branko Still more rhombic hexecontahedra. **98f:52008**
McMullen, P. (*with* Schulte, E.) Regular polytopes in ordinary space. (English summary) **98d:52014**
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Zalgaller, V. A. An algorithm for specifying existence conditions and the construction of a polyhedron with given directions and perimeters of the faces. (Russian. Russian summary) **98a:52014**

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Aronov, Boris (*with* Sharir, Micha; Tagansky, Boaz) The union of convex polyhedra in three dimensions. (English summary) **98m:52021**
— (*with* Sharir, Micha) On translational motion planning of a convex polyhedron in 3-space. (English summary) **98m:52022**
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Chazelle, Bernard (*with* Palios, L.) Decomposing the boundary of a nonconvex polyhedron. (English summary) **98a:52020**
Dolbilin, Nikolai P. (*with* Shtan'ko, M. A.; Shtogrin, M. I.) Nonbendability of the covering of a sphere by squares. (Russian) **98e:52027**
Hegyvári, Norbert (*with* Wintsche, Gergely) The rolling polyhedra. (English summary) **98k:52025**
O'Rourke, Joseph *see* **Agarwal, Pankaj K.; et al., 98m:52020**
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Sharir, Micha *see* **Aronov, Boris; et al., 98m:52021** *and* **98m:52022**
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Shtogrin, M. I. *see* **Dolbilin, Nikolai P.; et al., 98e:52027**
Tagansky, Boaz *see* **Aronov, Boris; et al., 98m:52021**
Wintsche, Gergely *see* **Hegyvári, Norbert, 98k:52025**

52B11 n-dimensional polytopes

Anikeeva, T. V. Construction of infinite series of closed locally minimal networks on convex polyhedra. (Russian. Russian summary)
Bekker, Boris M. (*with* Netsvetaev, N. Yu.) Generalized Sperner lemma and subdivisions into simplices of equal volume. (Russian summary) **98a:52015**
Bouzette, Sabine (*with* Buekenhout, Francis; Dony, Edmond; Gottcheiner, Alain) A theory of nets for polyhedra and polytopes related to incidence geometries. (English summary) **98a:52016**
Buekenhout, Francis *see* **Bouzette, Sabine; et al., 98a:52016**
Burger, Thomas (*with* Gritzmann, Peter; Klee, Victor) Polytope projection and projection polytopes. **98i:52013**
Dony, Edmond *see* **Bouzette, Sabine; et al., 98a:52016**
Fukuda, Hiroshi (*with* Muto, Nobuaki; Goto, Kikuko; Nakamura, Gisaku) Sections of hyper-cube in five dimensions. (English summary) **98f:52009**
Gel'fond, O. A. Combinatorial coefficients and the mixed volume of polyhedra. (Russian) **98k:52028**
Goto, Kikuko *see* **Fukuda, Hiroshi; et al., 98f:52009**
Gottcheiner, Alain *see* **Bouzette, Sabine; et al., 98a:52016**
Gritzmann, Peter *see* **Burger, Thomas; et al., 98i:52013**
Iwasaki, Katsunori Polytopes and the mean value property. (English summary) **98b:52013**
Klee, Victor *see* **Burger, Thomas; et al., 98i:52013**
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Bezdek, Károly (*with* Bisztriczky, Tibor) A proof of Hadwiger's covering conjecture for dual cyclic polytopes. (English summary) **98k:52005**
Bisztriczky, Tibor Ordinary $(2m+1)$-polytopes. (English summary) **98k:52024**
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Dahl, Geir Majorization, polyhedra, and statistical testing problems. (English summary) **98k:15025**
Dekster, B. V. Thickness of a simplex whose edge lengths fall within a prescribed range. (English summary) **98j:52010**
Makeev, V. V. Affine-inscribed and affine-circumscribed polygons and polyhedra. (Russian. Russian summary) **98b:52004**
Milka, A. D. Uniqueness theorems for spacelike convex polyhedra in a pseudo-Euclidean space. (Russian. English, Russian and Ukrainian summaries) **98m:52013**
Shevchenko, V. N. On the partition of a convex polytope into simplices without new vertices. (Russian) **98m:52015**
Vergne, Michèle Convex polytopes and quantization of symplectic manifolds. (English summary) **98d:58077**
Webster, Roger ★ Convexity. (English summary) **98h:52001**
Zhan, Ping A polynomial algorithm for enumerating all vertices of a base polyhedron. (English summary) **98k:90089**

52B12 Special polytopes (linear programming, centrally symmetric, etc.)

Blind, G. (*with* Blind, R.) Cubical d-polytopes with few vertices for $d>4$. (English summary) **98d:52015**
Blind, R. *see* **Blind, G., 98d:52015**
Ciesielska, Danuta (*with* Ciesielski, Krzysztof[1]) On polyhedra with centrally symmetric faces. (English summary) **98a:52017**
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Gurgel, Maria Angela C. M. (*with* Wakabayashi, Yoshiko) Adjacency of vertices of the complete pre-order polytope. (English summary) **98f:52010**
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Lonke, Yossi On the degree of generating distributions of centrally symmetric convex bodies. (English summary) **98i:52014**
Monson, B. (*with* Weiss, Asia Ivić) Eisentein [Eisenstein] integers and related C-groups. (English summary) **98g:52019**
Neubauer, Michael G. (*with* Watkins, William Earl; Zeitlin, Joel) Maximal j-simplices in the real d-dimensional unit cube. (English summary) **98j:52018**
Richter-Gebert, Jürgen *see* **Kortenkamp, U. H.; et al., 98d:52016**
Santos, Francisco Inscribing a symmetric body in an ellipse. (English summary) **98e:52007**
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Watkins, William Earl *see* **Neubauer, Michael G.; et al., 98j:52018**
Weiss, Asia Ivić *see* **Monson, B., 98g:52019**
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Bier, Thomas Eine Charakterisierung zyklischer Polytope durch Kettenbrüche. (German summary) [A characterization of cyclic polytopes by continued fractions] **98k:52023**
Blind, G. (*with* Blind, R.) Cubical 4-polytopes with few vertices. (English summary) **98g:52018**
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Bouchakour, Mustapha (*with* Mahjoub, Ali Ridha) One-node cutsets and the dominating set polytope. (English summary) **98e:05062**
Chakerian, G. D. (*with* Lutwak, Erwin) Bodies with similar projections. **98a:52011**
Cheng, Eddie (*with* Cunningham, William H.) Wheel inequalities for stable set polytopes. (English summary) **98g:05075**
Cunningham, William H. *see* **Cheng, Eddie, 98g:05075**
Deza, Antoine (*with* Deza, Michel-Marie; Fukuda, Komei) On skeletons, diameters and volumes of metric polyhedra. (English summary) **98c:90107**
Deza, Michel-Marie (*with* Laurent, Monique) ★ Geometry of cuts and metrics. (English summary) **98g:52001**
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Fukuda, Komei (*with* Prodon, Alain) Double description method revisited. (English summary) **98c:90108**
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Grygarová, L. A calculation of all separating hyperplanes of two convex polytopes. (English summary) **98f:90047**
Helmberg, Christoph (*with* Rendl, Franz; Weismantel, Robert) Quadratic knapsack relaxations using cutting planes and semidefinite programming. (English summary) **98e:90092**
Ko, Chun-Wa (*with* Lee, Jon[2]; Steingrimsson, Einar) The volume of relaxed Boolean-quadric and cut polytopes. (English summary) **98a:90084**
Koldobskiĭ, A. L. Intersection bodies and the Busemann-Petty problem. (English and French summaries) **98k:52007**
Kortenkamp, U. H. Every simplicial polytope with at most $d+4$ vertices is a quotient of a neighborly polytope. (English summary) **98h:52024**
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Lutwak, Erwin *see* **Chakerian, G. D., 98a:52011**
Mahjoub, Ali Ridha *see* **Bouchakour, Mustapha, 98e:05062**
Prodon, Alain *see* **Fukuda, Komei, 98c:90108**
Rambau, Jörg Triangulations of cyclic polytopes and higher Bruhat orders. (English summary) **98i:52019**
Rendl, Franz *see* **Helmberg, Christoph; et al., 98e:90092**
Sarangarajan, A. A lower bound for adjacencies on the traveling salesman polytope. (English summary) **98h:90064**
Simanchëv, R. Yu. Rank inequalities that generate facets of a polyhedron of connected k-factors. (Russian. Russian summary) **98m:05156**
Steingrimsson, Einar *see* **Ko, Chun-Wa; et al., 98a:90084**
Weismantel, Robert Hilbert bases and the facets of special knapsack polytopes. (English summary) **98e:90100**
— *see also* **Helmberg, Christoph; et al., 98e:90092**
Zong, Chuan Ming A problem of blocking light rays. (English summary) **98g:52014**

52B15 Symmetry properties of polytopes

Coxeter, Harold Scott MacDonald Reciprocating the regular polytopes. (English summary) **98d:52017**
Grünbaum, Branko Isogonal prismatoids. (English summary) **98g:52020**
Leytem, Charles Pseudo-Petrie operators on Grünbaum polyhedra. (English summary) **98h:52019**
Popelier, P. L. A. The heptadecagon: a curious object....
Rostami, M. On the dimension of the symmetry type of polyhedra with rotation groups. (English summary) **98h:52020**
Tonks, Andy Relating the associahedron and the permutohedron. **98c:52015**

Items with secondary classifications in 52B15

Bokowski, Jürgen (*with* Guedes de Oliviera, António; Thiemann, Ulrich; Veloso da Costa, António) On the cube problem of Las Vergnas. (English summary) **98e:52013**
Guedes de Oliviera, António *see* **Bokowski, Jürgen; et al., 98e:52013**
McMullen, P. (*with* Schulte, E.) Regular polytopes in ordinary space. (English summary) **98d:52014**
Schulte, E. *see* **McMullen, P., 98d:52014**
Thiemann, Ulrich *see* **Bokowski, Jürgen; et al., 98e:52013**
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52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [see also 06A08, 13F20, 13Hxx]

Bacher, Roland (*with* de la Harpe, Pierre; Venkov, Boris B.) Séries de croissance et séries d'Ehrhart associées aux réseaux de racines. (English and French summaries) [Growth series and Ehrhart series for root lattices] **98k:52029**
Brion, Michel (*with* Vergne, Michèle) Residue formulae, vector partition functions and lattice points in rational polytopes. (English summary) **98e:52008**
de la Harpe, Pierre *see* **Bacher, Roland; et al., 98k:52029**
Huber, Birkett (*with* Sturmfels, Bernd) Bernstein's theorem in affine space. (English summary) **98b:52014**
Kantor, Jean-Michel Triangulations of integral polytopes, examples and problems. (English summary) **98e:52009**
Lawrence, Jim A short proof of Euler's relation for convex polytopes. (English summary) **98k:52030**
Sturmfels, Bernd *see* **Huber, Birkett, 98b:52014**
Venkov, Boris B. *see* **Bacher, Roland; et al., 98k:52029**
Vergne, Michèle *see* **Brion, Michel, 98e:52008**

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Adolphson, Alan (*with* Sperber, Steven) Differential modules defined by systems of equations. **98h:13037**
Altmann, Klaus Infinitesimal deformations and obstructions for toric singularities. (English summary) **98j:14008**
Bárány, Imre Affine perimeter and limit shape. (English summary) **98a:52026**
Brion, Michel (*with* Vergne, Michèle) An equivariant Riemann-Roch theorem for complete, simplicial toric varieties. **98a:14067**
Cochand, Maurice (*with* Gaillard, Arlette; Gröflin, Heinz) Optimum partitioning into intersections of ring families. (English summary) **98e:90125**
Diaz, Ricardo (*with* Robins, Sinai) The Ehrhart polynomial of a lattice polytope. **98e:11117a**
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Duval, Art M. Algebraic shifting and sequentially Cohen-Macaulay simplicial complexes. (English summary) **98b:06009**
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Guillemin, Victor Riemann-Roch for toric orbifolds. **98a:58075**
Hibi, Takayuki *see* **Terai, Naoki, 98b:13013**
Narushima, Hiroshi A proof of Stanley's characterization for a simplicial complex to be an order complex. (English summary) **98d:06005**
Pommersheim, James E. Barvinok's algorithm and the Todd class of a toric variety. (English summary) **98g:14067**
Robins, Sinai *see* **Diaz, Ricardo, 98e:11117a** *and* **98e:11117b**
Schenck, Henry K. (*with* Stillman, Mike) A family of ideals of minimal regularity and the Hilbert series of $C^r(\hat{\Delta})$. (English summary) **98i:13030**
— A spectral sequence for splines. (English summary) **98i:13031**
Sperber, Steven *see* **Adolphson, Alan, 98h:13037**
Stillman, Mike *see* **Schenck, Henry K., 98i:13030**
Terai, Naoki (*with* Hibi, Takayuki) Computation of Betti numbers of monomial ideals associated with stacked polytopes. (English summary) **98b:13013**
Vergne, Michèle *see* **Brion, Michel, 98a:14067**

52B30 Arrangements of hyperplanes

Bayer, Margaret M. (*with* Brandt, Keith A.) Discriminantal arrangements, fiber polytopes and formality. (English summary) **98f:52011**
Björner, Anders (*with* Ekedahl, Torsten) Subspace arrangements over finite fields: cohomological and enumerative aspects. (English summary) **98h:52021**
Brandt, Keith A. *see* **Bayer, Margaret M., 98f:52011**
Chou, Wun-Seng (*with* Ku, Jong-Min; Shiue, Peter Jau-Shyong) On crossings of hyperplanes on the n-dimensional torus. (English summary) **98h:52022**
Cohen, Daniel C. (*with* Suciu, Alexander I.) The braid monodromy of plane algebraic curves and hyperplane arrangements. (English summary) **98f:52012**
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Cordovil, Raul (*with* Guedes de Oliveira, António; Las Vergnas, Michel) A generalized Desargues configuration and the pure braid group. (English summary) **98b:52015**
Ehrenborg, Richard (*with* Readdy, Margaret A.) On valuations, the characteristic polynomial, and complex subspace arrangements. (English summary) **98m:52018**
Ekedahl, Torsten *see* **Björner, Anders, 98h:52021**
Felsner, Stefan On the number of arrangements of pseudolines. (English summary) **98k:52031**
Feng, Jiaxin *see* **Jiang, Guang Feng, 98f:52013**
Guedes de Oliveira, António *see* **Cordovil, Raul; et al., 98b:52015**
Headley, Patrick On a family of hyperplane arrangements related to the affine Weyl groups. (English summary) **98e:52010**
Jiang, Guang Feng (*with* Feng, Jiaxin) An algorithm to produce the structure sequence of arrangement. (English summary) **98f:52013**
Jiang, Tan (*with* Yau, Stephen S.-T.) Complement of arrangement of hyperplanes. **98e:52011**
Kim, Minhyong Erratum: "On Poincaré polynomials for hyperplane arrangements in positive characteristic" [Comm. Algebra **21** (1993), no. 4, 1337–1346; MR 94a:52027]. **98m:52019**
Kozlov, Dmitry N. General lexicographic shellability and orbit arrangements. (English summary) **98h:52023**
Ku, Jong-Min *see* **Chou, Wun-Seng; et al., 98h:52022**
Las Vergnas, Michel *see* **Cordovil, Raul; et al., 98b:52015**
Massey, David B. (*with* Simion, Rodica; Stanley, Richard P.; Vertigan, Dirk; Welsh, Dominic J. A.; Ziegler, Günter M.) Lê numbers of arrangements and matroid identities.

(English summary) **98g:52021**

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52B60 Isoperimetric problems for polytopes

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52B70 Polyhedral manifolds

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52Cxx Discrete geometry

52C05 Lattices and convex bodies in 2 dimensions [see also 11H06, 11H31, 11P21]

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52C07 Lattices and convex bodies in n dimensions [see also 11H06, 11H31, 11P21]

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Deza, Michel-Marie (*with* Grishukhin, V. P.) Lattice points of cut cones [MR 95i:52017]. (English summary) (*see* **98d:00027**)
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52C10 Erdős problems and related topics of discrete geometry [see also 11Hxx]

Braß, Peter On the maximum number of unit distances among n points in dimension four. (English summary) **98j:52030**
— On point sets with many unit distances in few directions. (English summary) **98k:52038**
Csizmadia, György (*with* Ismailescu, D.) Maximum number of different distance counts. (English summary) **98i:52023**
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52C15 Packing and covering in 2 dimensions [see also 05B40, 11H31]

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Connelly, Robert *see* **Bezdek, Károly, 98k:52042**
Dubejko, Tomasz Circle packings in the unit disc. (English summary) **98e:52019**
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El Moumni, Said Rangements optimaux de carrés unité dans une bande infinie. (English and French summaries) [Optimal packings of unit squares into an infinite strip] **98f:52020**
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52C17 Packing and covering in n dimensions [see also 05B40, 11H31]

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— (*with* Wills, J. M.) Finite sphere packings and critical radii. (English summary) **98i:52025**
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52C20 Tilings in 2 dimensions [see also 05B45, 51M20]

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52C22 Tilings in n dimensions [see also 05B45, 51M20]

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52C25 Rigidity and flexibility of structures [see also 70B15]

Aleksandrov, V. A. An example of a flexible polyhedron with nonconstant volume in the spherical space. **98b:52028**
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52C99 None of the above, but in this section

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53–XX Differential geometry {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.}

53–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Cecil, Thomas E. *see* **Kühnel, Wolfgang**, **98f:53001**)
Kühnel, Wolfgang (*with* Cecil, Thomas E.) Bibliography on tight, taut and isoparametric submanifolds. (*see* **98f:53001**)

53–01 Instructional exposition (textbooks, tutorial papers, etc.)

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— ★ Riemannian geometry. (English summary) **98h:53001**
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53–02 Research exposition (monographs, survey articles)

Aguilar, Marcelo Alberto Lie groups and differential geometry. **98k:53001**
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53A04 Curves in Euclidean space

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— (*with* Simon, Udo; Chen, Bohui) A two-step Monge-Ampère procedure for solving a fourth order PDE for affine hypersurfaces with constant curvature. (English summary) **98g:53017**
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— (*with* Wang, Chang Ping[1]) Relative Tchebychev surfaces in $\mathbf{R}^3$. **98h:53022**
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— *see also* **Bokan, Neda; et al., 98a:53089**
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Yayli, Yusuf On the geometry of motion in the semi-Euclidean space. (English summary)
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53A20 Projective differential geometry

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— (*with* Rademacher, Hans-Bert) Oscillator and pendulum equation on pseudo-Riemannian spaces. (English summary) **98b:53061**
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53A35 Non-Euclidean differential geometry

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53A40 Other special differential geometries

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— Zur Geometrie der Tridens-Kurven der isotropen Ebene. (English summary) [On the geometry of Tridens curves in the isotropic plane] **98m:51026**
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53A55 Differential invariants (local theory), geometric objects

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53A60 Geometry of webs [see also 14C21, 20N05]

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53B05 Linear and affine connections

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Čomić, Irena Different connections in the vector subbundles. (English summary) **98d:53020**
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— (*with* Dube, O. P.) Recurrent Finsler spaces with rectilinear extremals. **98m:53032**
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Vargas, José G. (*with* Torr, Douglas G.) The construction of teleparallel Finsler connections and the emergence of an alternative concept of metric compatibility. (English summary) **98k:53025**
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Čomić, Irena Induced generalized connections in cotangent subbundles. (French summary) **98m:53093**
De, S. S. Internal symmetry of hadrons: Finsler geometrical origin. (English summary) **98c:81237**
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Eisenhart, Luther Pfahler ★ Non-Riemannian geometry. **98j:53001**
Ghinea, Ioan Some invariants of the group of transformations of conformal Hamilton connections. **98g:53122**
Gîrţu, Valentin *see* **Ciubotariu, Corneliu; et al.**
Grosu, Marta Time dependent nonlinear connections. **98j:53021**
Hrimiuc, D. Diffusions on Lagrange manifolds. **98h:58201**
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Văcaru, S. I. Clifford structures and spinors on spaces with local anisotropy. (English and Moldavian summaries) **98i:53022**
— Gauge like treatment of generalized Lagrange and Finsler gravity. (English and Moldavian summaries)

53B50 Applications to physics

Angelopoulou, P. A. (*with* Jannussis, A. D.; Sotiropoulou, A. A.) Complex geometry as genogeometry and axiomatization of irreversibility.
Fikhtengol'ts, I. G. Characteristic vectors and characteristic tensors for spaces with a conformally flat metric. (Russian) **98d:53029**
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Manta, Vasile *see* **Zet, Gheorghe; et al.**
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Sotiropoulou, A. A. *see* **Angelopoulou, P. A.; et al.**
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Abdussattar (*with* Dwivedi, Babita) On conharmonic transformations in general relativity. (English summary)
Agop, Marcel (*with* Ciobanu, B.) Some physical implications of a special Lagrange metric in the relativistic optics. **98k:53020**
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— Finslerian generalization of scalar products. (Russian. Russian summary) **98c:53024**
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Beil, R. G. Notes on a new Finsler metric function. (English summary) (*see* **98k:53002**)
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Elżanowski, Marek (*with* Preston, Serge) On non-holonomic second-order connections with applications to continua with microstructure. **98b:53018**
Ferapontov, E. V. (*with* Sharipov, R. A.) On first-order conservation laws for systems of hydrodynamic-type equations. (Russian. English and Russian summaries) **98h:35152**
Garcia de Andrade, L. C. (*with* de Souza Lima, C. A., Jr.) Non-Riemannian geometry of macroscopic spin distributions. (English summary)
Gîrţu, Valentin *see* **Ciubotariu, Corneliu; et al.**
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— Some generalized connection structures of the Finslerian gravitational field. II. **98a:53034**
Kadianakis, N. Geometric aspects of the co-rotational derivative of a continuous motion. (English and German summaries) **98h:73016**
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Skea, Jim E. F. Type N spacetimes whose invariant classifications require the fourth covariant derivative of the Riemann tensor. (English summary) **98k:83016**
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53B99 None of the above, but in this section

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53Cxx Global differential geometry [see also 51H25, 58–XX; for related bundle theory, see 55Rxx, 57Rxx]

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Aguoka, Yoshio First order partial differential equations on the curvature of 3-dimensional Heisenberg bundles. (English summary) **98e:53031**
Andricioaei, Gheorghe Remarkable invariant connections on the total space of the dual of a vector bundle. **98d:53030**
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Bitossi, Marco On the effective calculation of holonomy groups. (English and Italian summaries) **98f:53023**
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Chi, Quo-Shin (*with* Merkulov, Sergei; Schwachhöfer, Lorenz J.) On the existence of infinite series of exotic holonomies. (English summary) **98b:53023**
De, U. C. (*with* Biswas, S. C.) On a type of semi-symmetric metric connection on a Riemannian manifold. (English summary) **98h:53040**
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Gross, Christian Cohomology and connections on fiber bundles and applications to field theories. (English summary) **98e:53033**
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Hitotsuyanagi, Nobuo Manifolds with a triple multiplication. (English summary) **98g:53038**
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Jawarneh, Musa A. A. Semi-symmetric metric connection in a Riemannian manifold. (English summary) **98e:53034**
Kalina, Jerzy (*with* Pierzchalski, Antoni; Walczak, Paweł) Only one of generalized gradients can be elliptic. (English summary) **98c:53031**
Kureš, Miroslav Natural lifts of classical linear connections to the cotangent bundle. (English summary) **98i:53031**
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Liang, Yi Xing Projective transformations of semisymmetric metric-recurrent connections. (Chinese. English and Chinese summaries) **98h:53041**
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Smrz, P. K. Construction of real space-time from complex linear metric connections. (English summary) **98g:53040**
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Baez, John Carlos (*with* Sawin, Stephen F.) Functional integration on spaces of connections. (English summary) **98h:58027**
Bryant, Robert L. Classical, exceptional, and exotic holonomies: a status report. (English and French summaries) **98c:53037**
Bucki, Andrzej Special almost r-paracontact connections. (English summary) **98g:53050**
Cabras, Antonella (*with* Kolář, Ivan) On the iterated absolute differentiation on some functional bundles. (English summary) **98m:58002**
Chi, Quo-Shin (*with* Merkulov, Sergei; Schwachhöfer, Lorenz J.) Exotic holonomies $E_7^{(a)}$. (English summary) **98g:53046**
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— A new definition for certain lifts on a vector bundle. **98f:58014**
García-Río, Eduardo (*with* Vanhecke, Lieven; Vázquez-Abal, M. Elena) Harmonic connections. (English summary) **98a:53038**
Gherghe, Cătălin Quasi-connexion de Golab-Lyra. (French summary) [Golab-Lyra quasiconnections] **98g:53026**
Gross, Christian A generalization of the exterior product of differential forms combining Hom-valued forms. (English summary) **98k:58006**

Hebda, James (*with* Roberts, Craig W.) Examples of Thomas-Whitehead projective connections. (English summary) **98m:53027**
Ivanov, Stefan P. On dual holomorphically projectively flat affine connections. (English summary) **98g:53120**
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Kim, Hong-Jong Cohomology of flat vector bundles. (English summary) **98f:57049**
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Puşcaşu, Elena Familles de connexions linéaires attachées à une connexion spinorielle. I. (Romanian summary) [Families of linear connections associated with a spinor connection. I]
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53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [see also 32L07]

Acharya, B. S. (*with* O'Loughlin, Martin) Self-duality in $(D \leq 8)$-dimensional Euclidean gravity. (English summary) **98d:53034**
Anco, Stephen C. Novel generalization of three-dimensional Yang-Mills theory. (English summary) **98g:53043**
Banyaga, Augustin Instantons and hypercontact structures. II. (English summary) **98a:53037**
Bartnik, Robert The structure of spherically symmetric su(n) Yang-Mills fields. (English summary) **98d:53035**
Bor, Gil (*with* Segert, Jan) Symmetric instantons and the ADHM construction. (English summary) **98g:53044**
Darian, Bahman (*with* Künzle, H. P.) Cosmological Einstein-Yang-Mills equations. (English summary) **98h:53042**
García-Río, Eduardo (*with* Vanhecke, Lieven; Vázquez-Abal, M. Elena) Harmonic connections. (English summary) **98a:53038**
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Houghton, Conor J. (*with* Sutcliffe. Paul M.) SU(N) monopoles and Platonic symmetry. (English summary) **98j:53030**
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Irwin, Patrick SU(3) monopoles and their fields. (English summary) **98i:53033**
Ivanova, T. A. On infinite-dimensional algebras of symmetries of the self-dual Yang-Mills equations. (English summary) **98j:53031**
Jarvis, Stuart (*with* Norbury, Paul) Zero and infinite curvature limits of hyperbolic monopoles. (English summary) **98i:53034**
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Aikou, Tadashi Einstein-Finsler vector bundles. (English summary) **98i:53100**
Alekseevskiĭ, D. V. (*with* Marchiafava, Stefano) Quaternionic structures on a manifold and subordinated structures. **98j:53033**
Anand, Christopher Ward's solitons. (English summary) **98k:58100**
Antoine, J.-P. (*with* Mahara, I.) Classical Yang-Mills-Dirac equations: qualitative analysis of some solutions with a noncompact symmetry group. (English summary) **98b:58039**
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Bando, Shigetoshi (*with* Siu, Yum-Tong) Stable sheaves and Einstein-Hermitian metrics. **98e:32053**
de Bartolomeis, Paolo (*with* Tian, Gang) Stability of complex vector bundles. **98f:32031**
Bielawski, Roger Hyper-Kähler structures and group actions. **98g:53081**
Bilge, Ayşe Hümeyra (*with* Dereli, Tekin; Koçak, Şahin) The geometry of self-dual two-forms. (English summary) **98h:53117**
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Diaconescu, Duiliu-Emanuel D-branes, monopoles and Nahm equations. (English summary) **98m:58015**
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Valent, Galliano *see* **Chave, Thierry, 98d:58033** *and* **98g:53083**
Vanhecke, Lieven *see* **Cho, J. T.; et al., 98e:53074; González-Dávila, J. C., 98h:53047** *and* **García-Río, Eduardo; et al., 98m:58028**
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Yamagata, Masahiro (*with* Kon, Masahiro) On minimal CR submanifolds satisfying a certain condition on the Ricci curvature. **98e:53111**
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Zucker, Steven M. The Cheeger-Simons invariant as a Chern class. **98j:32034**

53C56 Other complex differential geometry [see also 32Cxx]

Abbena, E. (*with* Garbiero, S.; Salamon, Simon) Hermitian geometry on the Iwasawa manifold. (Italian summary) **98e:53121**
de Bartolomeis, Paolo Compactifications of the space of linear complex structures. (Italian summary) **98e:53122**
— Complex and holomorphic structures, their singularities and their invariants. (Italian) **98i:53098**
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— *see also* **Cordero, Luis A.; et al., 98m:53092**
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— A splitting theorem for compact complex homogeneous spaces with a symplectic structure. (English summary) **98a:53105**
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Nannicini, Antonella On certain Kähler submanifolds of twistor spaces. (Italian summary) **98g:53121**
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— (*with* Patrizio, Giorgio) Kähler Finsler manifolds of constant holomorphic curvature. **98i:53099**
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Barletta, Elisabetta (*with* Dragomir, Sorin) New CR invariants and their application to the CR equivalence problem. **98h:32010**
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Burns, Dan (*with* Mazzeo, Rafe) On the geometry of cusps for $SU(n, 1)$. **98b:32008**
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Schmitt, Alexander On the non-existence of Kähler structures on certain closed and oriented differentiable 6-manifolds. **98d:32034**
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Yan, Zhida (*with* Hou, Zixin) Some new developments in the study of differential geometry of homogeneous spaces. (English summary) **98d:53075**

53C60 Finsler spaces and generalizations (areal metrics) [see also 58B20]

Abate, Marco (*with* Patrizio, Giorgio) Complex Finsler metrics. **98h:53110**
— A characterization of the Chern and Bernwald [Berwald] connections. (English summary) **98e:53124**
— (*with* Patrizio, Giorgio) Holomorphic curvature of Finsler metrics and complex geodesics. (English summary) **98h:53111**
— (*with* Patrizio, Giorgio) Kähler Finsler manifolds of constant holomorphic curvature. **98i:53099**
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— Uniform Finsler Hadamard manifolds. (English and French summaries) **98c:53079**
Foulon, Patrick Locally symmetric Finsler spaces in negative curvature. (English and French summaries) **98f:53064**
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— On Finsler-Weyl manifolds and connections. **98e:53126**
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Lipagina, L. V. On the structure of the algebra of invariant affinor structures on the sphere S^5. (Russian) **98k:53094**
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Miron, Radu Geometry of vector subbundles in a vector bundle. **98h:53112**
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Antonelli, Peter L. (*with* Zastawniak, Tomasz) Stochastic Finsler geometry in the theory of evolution by symbiosis. (English summary) **98a:58171**
Bellettini, Giovanni (*with* Paolini, M.; Venturini, Sergio) Some results on surface measures in calculus of variations. (English summary) **98e:49097**
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Čomić, Irena Strongly distinguished connections in a recurrent K-Hamilton space. (English summary) **98h:53021**
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Di Bari, Maria (*with* Boccaletti, Dino; Cipriani, Piero; Pucacco, Giuseppe) Dynamical behavior of Lagrangian systems on Finsler manifolds. (English summary) **98f:58080**
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— ★ The geometry of higher-order Lagrange spaces. (English summary) **98g:58060**
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Saczuk, Jan On the role of the Finsler geometry in the theory of elasto-plasticity. (English summary) **98h:73042**
Văcaru, S. I. Stochastic differential equations on spaces with local anisotropy. (English and Moldavian summaries) **98m:58150**
— Superstrings in higher order extensions of Finsler superspaces. (English summary) **98j:81303**
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53C65 Integral geometry [see also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]

Amirov, A. Kh. Integral geometry and related inverse problems. (Russian) **98g:53124**

Begmatov, Akram Kh. A problem in integral geometry for a family of cones in an n-dimensional space. (Russian. Russian summary) **98a:53106**
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Cheng, Qing-Ming (*with* Shiohama, Katsuhiro) Non-existence of stable currents. II. **98b:53069**
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Gel'fand, Izrail' Moiseevich (*with* Graev, M. I.; Zyskin, M.) A problem of integral geometry on K^3 connected with harmonic analysis on the group $SL(2, K)$, where K is an arbitrary continuous locally compact field. (Russian) **98b:53070**
Graev, M. I. Integral geometry on the space L^n, where L is a matrix ring. (Russian) **98b:53071**
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Bernatzki, Felicia On the existence and regularity of mass-minimizing currents with an elastic boundary. (English summary) **98k:49055**
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Donaldson, S. K. Symplectic submanifolds and almost-complex geometry. **98h:53045**
Duzaar, Frank (*with* Fuchs, Martin²) Existence of area minimizing tangent cones of integral currents with prescribed mean curvature. (English summary) **98c:49078**
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Langevin, Remi (*with* Rosenberg, Harold) Fenchel type theorems for submanifolds of S^n. **98a:53094**
Massart, Daniel Normes stables des surfaces. (English and French summaries) [Stable norms for surfaces] **98d:53102**
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Troyan, V. N. (*with* Ryzhikov, G. A.) Application of the Radon inversion in diffraction tomography. (Russian. English and Russian summaries) **98a:44002**
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Vasil'ev, V. A. Ramification in integral geometry and monodromy of complex links. **98a:32050**
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Zhou, Jiazu Sufficient conditions for one domain to contain another in a space of constant curvature. (English summary) **98k:52016**

53C70 Direct methods (G-spaces of Busemann, etc.)

Alexander, Stephanie B. (*with* Bishop, Richard L.) Racetracks and extremal problems for curves of bounded curvature in metric spaces. (English summary) **98h:53116**
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Horja, Paul On the number of geodesic segments connecting two points on manifolds of non-positive curvature. (English summary) **98c:53055**

53C80 Applications to physics

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Bruni, Marco (*with* Matarrese, Sabino; Mollerach, Silvia; Sonego, Sebastiano) On relativistic perturbations of second and higher order. (English summary) **98k:53100**
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Dariescu, Marina-Aura (*with* Dariescu, Ciprian) U(1) gauge invariant in $S^3 \times \mathbf{R}$ geometry. **98c:53081**
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García-Compeán, Hugo (*with* Plebański, Jerzy F.) On the Weyl-Wigner-Moyal description of $SU(\infty)$ Nahm equations. (English summary) **98f:53069**
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Arteaga Bejarano, José Ricardo Involution and embedding of metrics. (Spanish. English and Spanish summaries) **98i:53084**

Asanov, G. S. Finslerian metric and tetrads in static spherically-symmetric case of gravitational field. (English summary) **98k:53093**

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53C99 None of the above, but in this section

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54–XX General topology {For the topology of manifolds of all dimensions, see 57Nxx.}

54–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

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54–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 54–03

(Aleksandrov, Pavel Sergeevich) *see* **Arkhangel'skiĭ, A. V.**
Arkhangel'skiĭ, A. V. (*with* Dranishnikov, A. N.) P. S. Alexandroff and topology: an introductory note.
Dranishnikov, A. N. *see* **Arkhangel'skiĭ, A. V.**
Luna Torres, Joaquin Carlos J. Ruiz Salguero and topology. (Spanish) **98f:01046**
Mardešić, Sibe Thirty years of shape theory. (English and Croatian summaries) **98e:55001**
Nagata, Jun-iti Recent progress of general topology in Japan. (English summary) **98a:54001**
(Ruiz Salguero, Carlos J.) *see* **Luna Torres, Joaquin, 98f:01046**

54–04 Explicit machine computation and programs (not the theory of computation or programming)

(Misra, Prabudh Ram) *see* **Proceedings: Topology Conference, 98i:54001**
(Rajagopalan, Minakshisundaram) *see* **Proceedings: Topology Conference, 98i:54001**

Items listed otherwise than by author

Conference:
  Topology ★ Proceedings of the Tennessee Topology Conference. **98i:54001**
Nashville, TN ★ Proceedings of the Tennessee Topology Conference. **98i:54001**
Proceedings:
  Topology Conference ★ Proceedings of the Tennessee Topology Conference. **98i:54001**

54–06 Proceedings, conferences, collections, etc.

(Andima, Susan) *see* **Papers on general topology and applications, 98d:54001; 98f:54003** *and* **98f:54004**
(Coplakova, Eva) *see* **Papers on general topology and applications, 98f:54005**
(Dokken, D. P.) *see* **Topological dynamics and applications, 98h:54001**
(Ellis, David Bennett) *see* **Topological dynamics and applications, 98h:54001**
(Ellis, Robert Mortimor) *see* **Topological dynamics and applications, 98h:54001**
(Hart, Klaas Pieter) *see* **Papers on general topology and applications, 98f:54005**
(Hunsaker, Worthen N.) *see* **Papers on general topology and applications, 98f:54004**
(Hušek, Miroslav) *see* **Symposium: General Topology and its Relations to Modern Analysis and Algebra, 98j:54002**
(Itzkowitz, Gerald) *see* **Papers on general topology and applications, 98d:54001** *and* **98f:54004**
(Kong, T. Yung) *see* **Papers on general topology and applications, 98d:54001**
(Kopperman, Ralph) *see* **Papers on general topology and applications, 98d:54001; 98f:54003** *and* **98f:54004**
(Misra, Prabudh Ram) *see* **Papers on general topology and applications, 98d:54001; 98f:54003** *and* **98f:54004**
(Narici, Lawrence) *see* **Papers on general topology and applications, 98d:54001**
(Nerurkar, Mahesh G.) *see* **Topological dynamics and applications, 98h:54001**
(Nogura, Tsugunori) *see* **Proceedings: Conference on Set-theoretic Topology and its Applications, 98j:54001**
(Todd, Aaron R.) *see* **Papers on general topology and applications, 98d:54001; 98f:54003** *and* **98f:54004**

Items listed otherwise than by author

Amsterdam ★ Papers on general topology and applications. **98f:54005**
Brookville, NY ★ Papers on general topology and applications. **98f:54003**
Conference:
  Ellis, Robert Mortimor ★ Topological dynamics and applications. **98h:54001**
  General Topology and Applications ★ Papers on general topology and applications. **98f:54003**
  — ★ Papers on general topology and applications. **98d:54001**
  — ★ Papers on general topology and applications. **98f:54004**
  — ★ Papers on general topology and applications. **98f:54005**
Contemporary Mathematics ★ Topological dynamics and applications. **98h:54001**
Festschrift:
  Ellis, Robert Mortimor ★ Topological dynamics and applications. **98h:54001**
Flushing, NY ★ Papers on general topology and applications. **98d:54001**
Matsuyama ★ Proceedings of the International Conference on Set-theoretic Topology and its Applications. Part 2. **98j:54001**
Minneapolis, MN ★ Topological dynamics and applications. **98h:54001**
Papers on general topology and applications ★ Papers on general topology and applications. **98f:54003**
— ★ Papers on general topology and applications. **98d:54001**
— ★ Papers on general topology and applications. **98f:54004**
— ★ Papers on general topology and applications. **98f:54005**
Prague ★ 8th Prague Topological Symposium on General Topology and its Relations to Modern Analysis and Algebra. **98j:54002**
Proceedings:
  Conference on Set-theoretic Topology and its Applications ★ Proceedings of the International Conference on Set-theoretic Topology and its Applications. Part 2. **98j:54001**
Slippery Rock, PA ★ Papers on general topology and applications. **98f:54004**
Symposium:
  General Topology and its Relations to Modern Analysis and Algebra ★ 8th Prague Topological Symposium on General Topology and its Relations to Modern Analysis and Algebra. **98j:54002**
Topological dynamics and applications ★ Topological dynamics and applications. **98h:54001**

Items with secondary classifications in 54–06

(Aulbach, Bernd) *see* **Six lectures on dynamical systems, 98a:58003**
(Colonius, F.) *see* **Six lectures on dynamical systems, 98a:58003**
(Hoshina, Takao) *see* **Memorial Issue: Morita, Kiiti**
(Morita, Kiiti) *see* **Memorial Issue: Morita, Kiiti**
(Nagata, Jun-iti) *see* **Memorial Issue: Morita, Kiiti**
(Okuyama, Akihiro) *see* **Memorial Issue: Morita, Kiiti**

Items listed otherwise than by author

Augsburg ★ Six lectures on dynamical systems. **98a:58003**
Memorial Issue:
  Morita, Kiiti ★ Special volume in memory of Kiiti Morita.
Six lectures on dynamical systems ★ Six lectures on dynamical systems. **98a:58003**
Workshop:
  Dynamical Systems ★ Six lectures on dynamical systems. **98a:58003**

54Axx Generalities

54A05 Topological spaces and generalizations (closure spaces, etc.)

Abe, Yoshihiro (*with* Kodama, Yukihiro; Sakai, Kazuhiro; Sakai, Masami; Yajima, Yukinobu) The study of the foundations of topological spaces and its applications. (Japanese)
Bacci, Ricardo Apparicio *see* **Rezende, Eliane Quelho Frota; et al., 98b:54003**
Banaschewski, Bernhard Recent results in pointfree topology. **98g:54003**
Bankston, Paul Topological measures of systems of sets. (English summary) **98d:54002**
Bassanezi, Rodney Carlos *see* **Rezende, Eliane Quelho Frota; et al., 98b:54003**
Bella, Angelo (*with* Malykhin, V. I.) Single non-isolated point spaces. (English and Italian summaries) **98d:54003**
Ćirić, D. On types of sets in topological class spaces. (English summary) **98b:54001**
Császár, Á. Generalized open sets. **98e:54001**
Dontchev, Julian (*with* Maki, Haruo) On sg-closed sets and semi-λ-closed sets. (English summary) **98h:54002**
— (*with* Maki, Haruo) On the behavior of gp-closed sets and their generalizations. (English summary) **98m:54001**
Gaiłka, Stanisław On continuity in extended topologies. (English summary) **98i:54002**
— On extended topologies—sequential operators and Heine criteria. (English summary)
Hodel, R. E. κ-structures: cardinality conditions, compactness, metrization. (English summary) **98g:54004**
Kodama, Yukihiro *see* **Abe, Yoshihiro; et al.**
Lee, Bu Young *see* **Park, Jin Han; et al.**

Long, Yi (*with* Xiang, Ren Miao; Yang, Zhi Huan) A generalization of Z. D. Yang's theorem. (Chinese. English and Chinese summaries)
Lowen, Robert (*with* Verbeeck, C.) Local compactness in approach spaces. I. (English summary) **98m:54002**
Maki, Haruo *see* **Dontchev, Julian, 98h:54002** *and* **98m:54001**
Malykhin, V. I. *see* **Bella, Angelo, 98d:54003**
Nasef, Arafa A. On the topology generated by a given topology and the principal ideal.
Nour, T. M. A note on some applications of semi-open sets. (English summary)
Park, Jin Han (*with* Lee, Bu Young; Son, Mi Jung) On δ-semiopen sets in topological space. (English summary)
Preuß, Gerhard Precompactness and compactness in the natural function spaces of the category of semi-uniform convergence spaces. (English summary) **98g:54005**
— Was ist der geeignete Rahmen zur Behandlung topologischer Probleme? (English summary) [What is a suitable framework for the discussion of topological problems?] **98m:54003**
— The topological universe of locally precompact semiuniform convergence spaces. (English summary) **98m:54004**
Prokop, Frank P. A step beyond topology. (English summary) **98d:54004**
Rezende, Eliane Quelho Frota (*with* Bacci, Ricardo Apparicio; Bassanezi, Rodney Carlos) Semi-group generated by K-limits. (English summary) **98h:54003**
Sakai, Kazuhiro *see* **Abe, Yoshihiro; et al.**
Sakai, Masami *see* **Abe, Yoshihiro; et al.**
Son, Mi Jung *see* **Park, Jin Han; et al.**
Verbeeck, C. *see* **Lowen, Robert, 98m:54002**
Xiang, Ren Miao *see* **Long, Yi; et al.**
Yajima, Yukinobu *see* **Abe, Yoshihiro; et al.**
Yang, Zhi Huan *see* **Long, Yi; et al.**

Items with secondary classifications in 54A05

Asher, Nicholas (*with* Vieu, Laure) Toward a geometry of common sense: a semantics and a complete axiomatization of mereotopology. (English summary) (*see* **98c:68014**)
Baran, Mehmet A notion of compactness in topological categories. (English summary) **98b:54016**
Brock, Paul William (*with* Kent, Darrell) Approach spaces, limit tower spaces, and probabilistic convergence spaces. (English summary) **98b:54017**
— Probabilistic convergence spaces and generalized metric spaces. (English summary) **98m:54035**
Comfort, W. W. On the existence of group topologies. (English summary) **98h:54050**
Coquand, Thierry Minimal invariant spaces in formal topology. **98i:03083**
Császár, Á. Riesz and Lodato reflections. IV. **98m:54018**
Hodel, R. E. κ-structures and topology. (English summary) **98d:54012**
Isbell, John Some structure of Borel locales. (English summary) **98j:54064**
Kent, Darrell *see* **Brock, Paul William, 98b:54017**
Khare, Mona *see* **Srivastava, Pramila, 98d:54049**
Marty, Roger H. Sequential G_δ-sets and measures. **98f:04002**
Ochiai, Shōji Note on a lattice derived from finite topological spaces. (Japanese. English summary) **98c:05008**
Shi, Fugui Pointwise quasi-uniformities on completely distributive lattices. (English and Chinese summaries) **98h:06020**
Srivastava, Pramila (*with* Khare, Mona) Pointwise compatibility, lattices of f-proximities and counterexamples. (English summary) **98d:54049**
Vieu, Laure *see* **Asher, Nicholas,** (**98c:68014**)

54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)

Aldaz, J. M. Uniformly finer topologies. (English summary) **98m:54005**
Dorsett, Charles New applications of semi-regular sets. (English summary)
Ganster, Maximilian (*with* Kanibir, Alev) An answer to a question of Dorsett. (English summary) **98j:54003**
Henriksen, Melvin Separate vs. joint continuity. A tale of four topologies—a summary. (English summary) **98m:54006**
Kanibir, Alev *see* **Ganster, Maximilian, 98j:54003**
Kato, Akio Cyclic monotonically normal spaces from Cantor sets. (English summary) **98b:54002**
McCartan, S. D. *see* **McCluskey, A. E., 98g:54006**
McCluskey, A. E. (*with* McCartan, S. D.) The minimal structures for T_A. (English summary) **98g:54006**
Porter, Jack R. (*with* Stephenson, Robert M., Jr.; Woods, R. Grant) Maximal feebly compact expansions. (English summary) **98g:54007**
Pyrih, Pavel Normal spaces and the Lusin-Menchoff property. (English summary) **98i:54003**
Stephenson, Robert M., Jr. *see* **Porter, Jack R.; et al., 98g:54007**
Tzannes, T. Connected Hausdorff topologies weaker than the Euclidean topology of the rationals. (English summary) **98b:54003**
Woods, R. Grant *see* **Porter, Jack R.; et al., 98g:54007**

Items with secondary classifications in 54A10

Chen, Jian Hua[1] (*with* Li, Lei; Ren, Guanshen) A note on order consistent topology. (English summary) **98d:54059**
Comfort, W. W. (*with* Remus, Dieter) Intervals of totally bounded group topologies. (English summary) **98k:22005**
Di Concilio, A. $\aleph$-completeness as E-compactness via the uniform dimension. (English summary) **98g:54048**
Dikranjan, Dikran N. (*with* Policriti, Alberto) Complementation in the lattice of equivalence relations. (English summary) **98g:06015**
Di Maio, Giuseppe (*with* Holá, Ľubica) On hit-and-miss topologies. (English and Italian summaries) **98f:54010**
Eckertson, Frederick W. Resolvable, not maximally resolvable spaces. (English summary) **98i:54019**
Good, Chris Bijective preimages of ω_1. (English summary) **98a:54016**
Hejduk, Jacek On the density topology with respect to an extension of Lebesgue measure. (English summary) **98m:28007**
— Convergence with respect to F_σ-supported ideals. **98b:28003**
Holá, Ľubica *see* **Di Maio, Giuseppe, 98f:54010**
Lashkarizadeh Bami, Mahmood On some topologies which coincide on $\mathscr{R}_\tau(S)$ for a foundation topological semigroup S. (English summary) **98m:54041**
Li, Lei *see* **Chen, Jian Hua[1]; et al., 98d:54059**
Liang, Jihua (*with* Liu, Ying Ming) Continuous L-domains. (English summary) **98c:06007**
Liu, Ying Ming *see* **Liang, Jihua, 98c:06007**
Nikiel, J. Dendrons, dendritic spaces, and uniquely arcwise connected spaces. (English summary) **98g:54072**
Policriti, Alberto *see* **Dikranjan, Dikran N., 98g:06015**
Remus, Dieter *see* **Comfort, W. W., 98k:22005**
Ren, Guanshen *see* **Chen, Jian Hua[1]; et al., 98d:54059**
Rogowska, Dorota On a metric making a σ-ideal of subsets of an uncountable Polish space meager. (English summary) **98h:54041**
Shakhmatov, Dmitriĭ B. (*with* Tkachenko, M. G.; Tkachuk, Vladimir V.; Watson, W. Stephen; Wilson, Richard Gordon) Neither first countable nor Čech-complete spaces are maximal Tychonoff connected. (English summary) **98c:54014**
Shi, Wei-Xue Perfect GO-spaces which have a perfect linearly ordered extension. (English summary) **98j:54056**
Tkachenko, M. G. *see* **Shakhmatov, Dmitriĭ B.; et al., 98c:54014**
Tkachuk, Vladimir V. *see* **Shakhmatov, Dmitriĭ B.; et al., 98c:54014**
Trigos-Arrieta, F. Javier Normality and the weak topology on a locally compact abelian group. (English summary) **98m:22004**
Watson, W. Stephen *see* **Shakhmatov, Dmitriĭ B.; et al., 98c:54014**
Wilson, Richard Gordon *see* **Shakhmatov, Dmitriĭ B.; et al., 98c:54014**

54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)

Arkhangel'skiĭ, A. V. On cleavability of topological spaces over $\mathbf{R}$, $\mathbf{R}^\omega$ and $\mathbf{R}^{\omega_1}$. (English summary) **98g:54008**
— (*with* Bella, Angelo) Countable fan-tightness versus countable tightness. (English summary) **98d:54005**
Arkhipov, G. I. (*with* Sadovnichiĭ, V. A.[1]; Chubarikov, V. N.) On uniform pointwise convergence in a base of sets. (Russian) **98f:54006**
Arvasi, Zekeriya *see* **Koçak, Mahmut, 98h:54005**
Bella, Angelo *see* **Arkhangel'skiĭ, A. V., 98d:54005**
Brock, Paul William (*with* Kent, Darrell) On convergence approach spaces. (English summary) **98m:54007**
Cammaroto, Filippo[1] Cleavability and divisibility over developable spaces. (English summary) **98c:54001**
Chubarikov, V. N. *see* **Arkhipov, G. I.; et al., 98f:54006**
Ewert, Janina On strong form of Arzela convergence. (English summary) **98b:54004**
Fan, Li Qiong A description of the first axiom of countability in terms of convergence classes. (Chinese. English and Chinese summaries)
Frič, Roman (*with* Zanolin, Fabio) Relatively coarse sequential convergence. (English summary) **98d:54006**
Garcia-Ferreira, Salvador Some generalizations of pseudocompactness. (English summary) **98d:54007**
Itzkowitz, Gerald Uniform separation and a theorem of Katětov. (English summary) **98f:54007**
Kent, Darrell (*with* Richardson, Gary D.) Convergence spaces and diagonal conditions. (English summary) **98h:54004**
— *see also* **Brock, Paul William, 98m:54007**
Koçak, Mahmut (*with* Arvasi, Zekeriya) Near ultrafilters and compactification of topological groups. (English and Turkish summaries) **98h:54005**
Kovár, Martin Maria A remark on Θ-regular spaces. (English summary)
Leseberg, Dieter Convergence of filters. (English summary) (*see* **98b:00031**)
Lin, Shou A note on the Arens' space and sequential fan. (English summary) **98m:54008**
Molchanov, Vladimir A. A nonstandard approach to compact inverse semigroups of local homeomorphisms. **98m:54009**
Nogura, Tsugunori (*with* Shakhmatov, Dmitriĭ B.; Tanaka, Yoshio) α_4-property versus A-property in topological spaces and groups. (English summary) **98k:54001**
Reclaw, Ireneusz Metric spaces not distinguishing pointwise and quasinormal convergence of real functions. (English summary) **98h:54006**
Richardson, Gary D. *see* **Kent, Darrell, 98h:54004**
Sadovnichiĭ, V. A.[1] *see* **Arkhipov, G. I.; et al., 98f:54006**
Shakhmatov, Dmitriĭ B. *see* **Nogura, Tsugunori; et al., 98k:54001**
Tanaka, Yoshio *see* **Nogura, Tsugunori; et al., 98k:54001**
Toma, Vladimir Strong convergence and Dini theorems for non-uniform spaces. (English and French summaries) **98k:54002**
Vainio, Reino Maximal chains in function spaces. (English summary) **98h:54007**
Wagner, Kim Ritter Liminf convergence in Ω-categories. (English summary) **98e:54002**
Zanolin, Fabio *see* **Frič, Roman, 98d:54006**

Items with secondary classifications in 54A20

Arab, Meriem (*with* Calbrix, Jean) Comparison of some classical topologies on hyperspaces within the framework of point spaces. (English summary) **98c:54006**
Arkhangel'skiĭ, A. V. (*with* Malykhin, V. I.) Metrizability of topological groups. (Russian. Russian summary) **98e:54033**
Arkhipov, G. I. (*with* Sadovnichiĭ, V. A.[1]; Chubarikov, V. N.) On the uniform convergence of functions in the sense of Heine. (Russian) **98c:26007**
Attouch, H. (*with* Riahi, Hassan; Théra, M.) Somme ponctuelle d'opérateurs maximaux monotones. (English summary) [Pointwise sum of maximal monotone operators] **98e:47083**

Baran, Mehmet A notion of compactness in topological categories. (English summary) **98b:54016**
Binzar, Tudor On a convergence in multifunction spaces. (English and Romanian summaries) **98j:54033**
Brock, Paul William (*with* Kent, Darrell) Probabilistic convergence spaces and regularity. (English summary) **98h:54042**
— Probabilistic convergence spaces and generalized metric spaces. (English summary) **98m:54035**
Buck, Bernhard *see* **Butzmann, Heinz-Peter, 98k:54066**
Butzmann, Heinz-Peter (*with* Buck, Bernhard) Free commutative convergence groups. **98k:54066**
Calbrix, Jean *see* **Arab, Meriem, 98c:54006**
Cao, Jiling (*with* Reilly, Ivan L.; Vamanamurthy, Mavina K.) Comparison of convergences for multifunctions. (English summary) **98f:54020**
Chicourrat, Monique Extensions de proximités et de prétopologies dans l'ensemble des ultrafiltres. [Extension of proximities and pretopologies in the set of ultrafilters] **98k:54046**
Chubarikov, V. N. *see* **Arkhipov, G. I.; et al., 98c:26007**
Di Maio, Giuseppe (*with* Holá, Ľubica) On hit-and-miss topologies. (English and Italian summaries) **98f:54010**
— (*with* Holá, Ľubica; Holý, Dušan) A characterization of locally compact spaces by epiconvergence and convergence in epitopology. (English summary) **98h:54016**
Dontchev, Julian (*with* Ganster, Maximilian) Codense ideals, local $\mathcal{I}$-compactness and three questions of Rose and Hamlett. (English summary)
Dow, Alan On MAD families and sequential order. (English summary) **98k:54043**
— (*with* Juhász, Istvan; Soukup, L.; Szentmiklóssy, Z.) More on sequentially compact implying pseudoradial. (English summary) **98j:54042**
Ewert, Janina On convergence of multivalued maps. (English summary) **98e:54021**
Fedorchuk, V. V. Completions of spaces of functions on compact spaces with respect to the Hausdorff uniformity. (English summary) **98j:54025**
Ganster, Maximilian *see* **Dontchev, Julian**
Ho, Phoebe (*with* Plummer, Paul; So, Shing) Some results on compact convergence semigroups defined by filters. (English summary)
Holá, Ľubica *see* **Di Maio, Giuseppe, 98f:54010** *and* **98h:54016**
Holý, Dušan *see* **Di Maio, Giuseppe; et al., 98h:54016**
Hota, Sanju (*with* Purisch, S.; Rajagopalan, Minakshisundaram) Countably compact spaces which cannot be cancellative topological semigroups. (English summary) **98h:54051**
Jang, Lee-Chae (*with* Kwon, Joong-Sung) Convergences of sequences of set-valued and fuzzy-set-valued functions. (English summary)
Juhász, Istvan *see* **Dow, Alan; et al., 98j:54042**
Kent, Darrell (*with* Rath, Nandita) On completions of filter spaces. (English summary) **98h:54034**
— (*with* Richardson, Gary D.) Diagonal Cauchy spaces. (English summary) **98h:54037**
— *see also* **Brock, Paul William, 98h:54042**
Kočinac, Ljubiša D. Around pseudo-distancial spaces. (English summary) **98b:54036**
Künzi, Hans-Peter A. (*with* Romaguera, Salvador) Spaces of continuous functions and quasi-uniform convergence. **98b:54024**
Kwon, Joong-Sung *see* **Jang, Lee-Chae**
Lipparini, Paolo Productive $[\lambda, \mu]$-compactness and regular ultrafilters. (English summary) **98j:54043**
Malykhin, V. I. *see* **Arkhangel'skiĭ, A. V., 98e:54033**
Nour, T. M. A note on some applications of semi-open sets. (English summary)
Plummer, Paul *see* **Ho, Phoebe; et al.**
Preuß, Gerhard Precompactness and compactness in the natural function spaces of the category of semi-uniform convergence spaces. (English summary) **98g:54005**
— Was ist der geeignete Rahmen zur Behandlung topologischer Probleme? (English summary) [What is a suitable framework for the discussion of topological problems?] **98m:54003**
— The topological universe of locally precompact semiuniform convergence spaces. (English summary) **98m:54004**
Prokaj, V. A note on pointwise convergence. **98e:54017**
Purisch, S. *see* **Hota, Sanju; et al., 98h:54051**
Rajagopalan, Minakshisundaram *see* **Hota, Sanju; et al., 98h:54051**
Rath, Nandita *see* **Kent, Darrell, 98h:54034**
Reilly, Ivan L. *see* **Cao, Jiling; et al., 98f:54020**
Riahi, Hassan *see* **Attouch, H.; et al., 98e:47083**
Richardson, Gary D. *see* **Kent, Darrell, 98h:54037**
Romaguera, Salvador *see* **Künzi, Hans-Peter A., 98b:54024**
Sadovnichiĭ, V. A.[1] *see* **Arkhipov, G. I.; et al., 98c:26007**
Shibakov, A. Sequentiality of products of spaces with point-countable k-networks. (English summary) **98b:54034**
— Metrizability of sequential topological groups with point-countable k-networks. (English summary) **98e:54036**
Šlapal, Josef On some categories of sequential spaces. (English summary) **98i:54012**
So, Shing *see* **Ho, Phoebe; et al.**
Soukup, L. *see* **Dow, Alan; et al., 98j:54042**
Szentmiklóssy, Z. *see* **Dow, Alan; et al., 98j:54042**
Théra, M. *see* **Attouch, H.; et al., 98e:47083**
Vamanamurthy, Mavina K. *see* **Cao, Jiling; et al., 98f:54020**
Yakivchik, A. N. Weakly normal topological spaces and products. (English summary) **98b:54012**

54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [see also 03Exx, 04A30] {For ultrafilters, see 54D80.}

Bella, Angelo (*with* van Mill, Jan) Tight points and countable fan-tightness. (English summary) **98d:54008**
— (*with* Yashchenko, I. V.) Short note on products of pseudoradial spaces and a conjecture of Simon and Tironi. (English summary)
— (*with* Yashchenko, I. V.) Embeddings into first countable spaces with H-closed like properties. (English summary) **98k:54003**
Dow, Alan (*with* Monk, J. Donald) Depth, π-character, and tightness in superatomic Boolean algebras. (English summary) **98a:54002**
Eda, Katsuya (*with* Kada, Masaru; Yuasa, Yoshifumi) The tightness about sequential fans and combinatorial properties. **98d:54009**
Fedeli, Alessandro (*with* Watson, W. Stephen) Elementary submodels and cardinal functions. (English summary) **98e:54003**
— On the cardinality of functionally Hausdorff spaces. (English summary) **98b:54005**
— Special almost P-spaces. (English summary) **98d:54010**
— A note on the cardinality of functionally Hausdorff spaces. (English and Italian summaries)
— On two questions related to H-sets. (English summary) **98m:54010**
Fedorchuk, V. V. (*with* Todorčević, Stevo) Cellularity of covariant functors. (English summary) **98c:54002**
Friedler, Louis M. (*with* Porter, Jack R.) Compactly functionally compact spaces. (English summary) **98i:54004**
García-Máynez, Adalberto Pseudocharacters and uniform weights. (English summary) **98d:54011**
Gartside, P. M. Cardinal invariants of monotonically normal spaces. (English summary) **98j:54004**
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— *see also* **Devi, Ramasamy; et al.**
Bandyopadhyay, Chhanda (*with* Chattopadhyay, Chandan) Some generalized continuous functions and resolvable and irresolvable spaces. (English summary)
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Kalenda, Ondřej Note on connections of the point of continuity property and Kuratowski problem on function having the Baire property. (English summary) **98k:54019**
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Latif, Raja Mohammad Perfect maps in topological spaces. (English summary)
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Swaminathan, S. Convexity of functions and metrizability. (English summary) **98m:54020**
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Arkhangel'skiĭ, A. V. On cleavability of topological spaces over $\mathbf{R}$, $\mathbf{R}^n$ and $\mathbf{R}^\omega$. (English summary) **98g:54008**
— (*with* Bella, Angelo) Countable fan-tightness versus countable tightness. (English summary) **98d:54005**
Ayala, R. (*with* Chávez, M. J.; Quintero, A.) On the planarity of Peano generalized continua: an extension of a thereom of S. Claytor. (English summary) **98h:54044**
Bai, Shi-Zhong (*with* Wang, Wan-Liang) Fuzzy non-continuous mappings and fuzzy pre-semi-separation axioms. (English summary)
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— Cleavability and divisibility over developable spaces. (English summary) **98c:54001**
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— (*with* Uglešić, Nikica) Paracompact locally compact spaces as inverse limits of polyhedra. (English summary) **98k:54013**
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— (*with* Liu, Chuan; Dai, Mumin) Images on locally separable metric spaces. (English summary) **98d:54053**
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54C15 Retraction

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Collins, P. J. (*with* Gartside, P. M.) Mal'tsev spaces, retral spaces and rectifiable diagonals. (English summary) **98b:54050**
El-Ahmady, A. E. (*with* Kozae, A. M.) Retracts and semiretracts of topological spaces. (English and Chinese summaries)
Gartside, P. M. *see* **Collins, P. J., 98b:54050**
Kozae, A. M. *see* **El-Ahmady, A. E.**
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— (*with* Pikhurko, O.) Correction: "On linear functorial operators extending pseudometrics" [Comment. Math. Univ. Carolin. **38** (1997), no. 2, 343–348; MR 98c:54007]. **98k:54007**
Bankston, Paul Co-elementary equivalence, co-elementary maps, and generalized arcs. (English summary) **98b:54018**
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54C30 Real-valued functions [see also 26–XX]

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Eckertson, Frederick W. (*with* Ohta, Haruto) Weak pseudocompactness and zero sets in pseudocompact spaces. (English summary) **98g:54024**
Garrido, I. (*with* Montalvo Durán, Francisco) Algebraic properties of the uniform closure of spaces of continuous functions. (English summary) **98g:54025**
— (*with* Montalvo Durán, Francisco) Some density results for uniformly continuous functions. (English summary) **98d:54031**
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Piotrowski, Zbigniew (*with* Reilly, Ivan L.; Scott, Brian M.) The cardinality of the class of separately continuous functions. (English summary) **98g:54027**
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Ciesielski, Krzysztof² (*with* Wojciechowski, Jerzy) Sums of connectivity functions on $\mathbf{R}^n$. (English summary) **98k:26023**
Darji, Udayan B. Countable decomposition of derivatives and Baire 1 functions. (English summary) **98b:26003**
— (*with* Evans, Michael Jon; Freiling, Chris; O'Malley, Richard J.) Fine properties of Baire one functions. (English summary) **98k:26007**
Di Maio, Giuseppe (*with* Holá, Ľubica; Holý, Dušan) A characterization of locally compact spaces by epiconvergence and convergence in epitopology. (English summary) **98h:54016**
Evans, Michael Jon *see* **Darji, Udayan B.; et al., 98k:26007**
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Gibson, Richard G. (*with* Natkaniec, Tomasz) Darboux like functions. **98h:26004**
Grande, Zbigniew On equi-derivatives. (English summary) **98e:26003**
— On functions of two variables equicontinuous in one variable. (English summary) **98f:26009**
— On strong quasi-continuity points. (English summary) **98i:26003**
— On some lattices containing s.q.c. functions. (English summary) **98i:26004**
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Hille, Jürgen Smoothness properties of real-valued functions based on their oscillation. **98f:26002**
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Sakálová, Katarína On structural properties of graph continuous functions. (English summary) **98j:54023**
Schwartz, Niels Gabriel filters in real closed rings. (English summary) **98k:14079**
Wilczynski, Władysław (*with* Wojdowski, Wojciech) Sequence conditions which imply approximate and I-approximate continuities of functions of two variables. (English summary) **98j:26007**
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54C35 Function spaces [see also 46Exx, 58D15]

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Di Maio, Giuseppe (*with* Holá, Ľubica) Wijsman topology on function spaces. (English summary) **98e:54019**
Fedorchuk, V. V. Completions of spaces of functions on compact spaces with respect to the Hausdorff uniformity. (English summary) **98j:54025**
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Georgiou, D. N. On X-θ-splitting and X-θ-jointly continuous topologies on function spaces. (English and Italian summaries) **98h:54020**
— (*with* Papadopoulos, B. K.) A note on the finest splitting topology. (English summary) **98g:54028**
Gruenhage, Gary (*with* Ma, Daniel K.) Baireness of $C_k(X)$ for locally compact X. (English summary) **98f:54018**
Hammer, S. T. (*with* McCoy, Robert A.) Spaces of densely continuous forms. (English summary) **98h:54021**
Holá, Ľubica (*with* McCoy, Robert A.) The Fell topology on $C(X)$. (English summary) **98g:54029**
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Kalamidas, N. A pseudocompact space with Kelley's property has a strictly positive measure. (English summary) **98h:54022**
Khurana, Surjit Singh (*with* Garrido, José Aguayo) Vector-valued uniformly continuous functions and uniform measures.
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Kundu, Subiman (*with* Raha, A. B.) The bounded-open topology and its relatives. (English and Italian summaries) **98a:54011**
Künzi, Hans-Peter A. (*with* Romaguera, Salvador) Spaces of continuous functions and quasi-uniform convergence. **98b:54024**
Labędzki, G. A topology generated by eventually different functions. (English summary) **98k:54026**
Leiderman, A. (*with* Levin, Michael A.; Pestov, V.) On linear continuous open surjections of the spaces $C_p(X)$. (English summary) **98j:54026**
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McCoy, Robert A. Fell topology and uniform topology on compacta on spaces of multifunctions. (English summary) **98j:54027**
— *see also* **Holá, Ľubica, 98g:54029** *and* **Hammer, S. T., 98h:54021**
van Mill, Jan (*with* Pol, Roman) A countable space with a closed subspace without measurable extender. (English summary) **98h:54023**
Nokhrin, S. Ė. Local compactness of function spaces in a set-open topology. (Russian. Russian summary) **98g:54030**
Okunev, O. G. Homeomorphisms of function spaces and hereditary cardinal invariants. (English summary) **98i:54006**
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54C60 Set-valued maps [see also 26E25, 28B20, 47H04, 58C06]

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54G12 Scattered spaces

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Sanjurjo, Jóse M. R. *see* **Nguyen To Nhu; et al., 98d:54037a** *and* **98d:54037b**
Srivastava, Pramila (*with* Khare, Mona) Pointwise compatibility, lattices of f-proximities and counterexamples. (English summary) **98d:54049**
Trần Văn Ân *see* **Nguyen To Nhu; et al., 98d:54037a** *and* **98d:54037b**
Vermeer, Johannes Quotients of complete Boolean algebras. (English summary) **98g:54083**

54Hxx Connections with other structures, applications

54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [see also 03E15, 04A15, 26A21, 28A05]

Allouche, Jean-Paul Note on the constructible sets of a topological space. **98a:54032**
Balcerzak, Marek Generalized projections of Borel and analytic sets. **98d:54067**
— (*with* Rogowska, Dorota) Making some ideals meager on sets of size of the continuum. (English summary) **98k:54063**
Becker, Howard (*with* Kechris, Alexander S.) ★ The descriptive set theory of Polish group actions. (English summary) **98d:54068**
Burke, Dennis K. (*with* Hansell, Roger W.) Perfect maps and relatively discrete collections. (English summary) **98g:54085**
Dasgupta, Abhijit Boolean operations, Borel sets, and Hausdorff's question. **98g:54086**
van Engelen, Fons Borel groups of low descriptive complexity. (English summary) **98g:54087**
Hansell, Roger W. *see* **Burke, Dennis K., 98g:54085**
Holický, Petr (*with* Kalenda, Ondřej) Remark on the point of continuity property. II. (English summary) **98j:54063**
Isbell, John Some structure of Borel locales. (English summary) **98j:54064**
Just, Winfried (*with* Scheepers, Marion; Stepräns, Juris; Szeptycki, Paul J.) $G_{\delta\delta}$-sets in topological spaces and games. (English summary) **98k:54064**
Kalenda, Ondřej *see* **Holický, Petr, 98j:54063**
Kechris, Alexander S. *see* **Becker, Howard, 98d:54068**
Künzi, Hans-Peter A. (*with* Wajch, Eliza) Borel classification via quasi-metrics. (English summary) **98d:54069**
Pytkeev, E. G. Z_σ-mappings of K-analytic spaces. (Russian) **98c:54031**
Rogowska, Dorota *see* **Balcerzak, Marek, 98k:54063**
Scheepers, Marion *see* **Just, Winfried; et al., 98k:54064**
Stepräns, Juris *see* **Just, Winfried; et al., 98k:54064**
Szeptycki, Paul J. *see* **Just, Winfried; et al., 98k:54064**
Wajch, Eliza On $(\mathscr{D}, \mathscr{F})$-analytic sets and their topological applications. (English summary) **98k:54065**
— *see also* **Künzi, Hans-Peter A., 98d:54069**

Items with secondary classifications in 54H05

Andretta, Alessandro (*with* Marcone, Alberto) Ordinary differential equations and descriptive set theory: uniqueness and globality of solutions of Cauchy problems in one dimension. (English summary) **98g:34009**
Arenas, Francisco G. (*with* Dontchev, Julian; Ganster, Maximilian) On λ-sets and the dual of generalized continuity. **98c:54009**
Balogh, Zoltan T. There is a paracompact Q-set space in ZFC. (English summary) **98g:54084**
Bossard, Benoît Coanalytic families of norms on a separable Banach space. **98a:46015**

— An ordinal version of some applications of the classical interpolation theorem. (English summary) **98d:46008**
Chaatit, Fouad (*with* Mascioni, V.; Rosenthal, Haskell Paul) On functions of finite Baire index. (English summary) **98b:26001**
Delistathis, George Embedding compact spaces into compact spaces with few regular open Baire subsets. (English summary) **98k:54022**
Dontchev, Julian (*with* Ganster, Maximilian) On covering spaces with semi-regular sets. (English summary) **98d:54040**
— (*with* Maki, Haruo) On sg-closed sets and semi-λ-closed sets. (English summary) **98h:54002**
— (*with* Maki, Haruo) On the behavior of gp-closed sets and their generalizations. (English summary) **98m:54001**
— (*with* Ganster, Maximilian) Codense ideals, local $\mathcal{J}$-compactness and three questions of Rose and Hamlett. (English summary)
— *see also* **Arenas, Francisco G.; et al., 98c:54009**
Gaboriau, Damien Générateurs indépendants pour les systèmes d'isométries de dimension un. (English and French summaries) [Independent generators for one-dimensional systems of isometries] **98e:20035**
Ganster, Maximilian *see* **Arenas, Francisco G.; et al., 98c:54009; Dontchev, Julian, 98d:54040**
Hejduk, Jacek Convergence with respect to F_σ-supported ideals. **98b:28003**
Kenderov, P. S. (*with* Moors, Warren B.) Fragmentability of Banach spaces. **98k:46025**
Maki, Haruo *see* **Dontchev, Julian, 98h:54002** *and* **98m:54001**
Marcone, Alberto *see* **Andretta, Alessandro, 98g:34009**
Mascioni, V. *see* **Chaatit, Fouad; et al., 98b:26001**
Michalewski, Henryk (*with* Pol, Roman) On a Hurewicz-type theorem and a selection theorem of Michael. (English summary) **98f:54024**
Moors, Warren B. *see* **Kenderov, P. S., 98k:46025**
Namioka, I. σ-fragmented Banach spaces and function spaces. (English summary) (*see* **98d:54001**)
Pol, Roman *see* **Michalewski, Henryk, 98f:54024**
Rosenthal, Haskell Paul *see* **Chaatit, Fouad; et al., 98b:26001**
Sakai, Masami Remarks on spaces with special type of k-networks. (English summary) **98g:54045**
Schilling, Kenneth (*with* Živaljević, Boško) Louveau's theorem for the descriptive set theory of internal sets. (English summary) **98j:03096**
Smirnov, E. I. The theory of Hausdorff spectra in the category of locally convex spaces. (English summary) **98i:46003**
Uzcátegui A., Carlos E. The σ-ideal of closed smooth sets does not have the covering property. (English summary) **98d:54076**
Zarichnyĭ, M. M. Absorbing sets for n-dimensional spaces in absolutely Borel and projective classes. (Russian. Russian summary) **98g:54032**
Živaljević, Boško *see* **Schilling, Kenneth, 98j:03096**

54H10 Topological representations of algebraic systems [see also 22–XX]

Items with secondary classifications in 54H10

Banaschewski, Bernhard Pointfree topology and the spectra of f-rings. **98c:06027**
Belaïd, Karim (*with* Cherif, Bahri; Echi, Othman) On spectral binary relation [relations]. **98a:06001**
Cherif, Bahri *see* **Belaïd, Karim; et al., 98a:06001**
Echi, Othman *see* **Belaïd, Karim; et al., 98a:06001**
Robbie, Desmond A note on ordered power associative (topological) groupoids. (English summary) **98k:22008**

54H11 Topological groups [see also 22A05]

Arkhangel'skiĭ, A. V. Bisequential spaces, tightness of products, and metrizability conditions in topological groups. (Russian. Russian summary) **98e:54032**
— (*with* Malykhin, V. I.) Metrizability of topological groups. (Russian. Russian summary) **98e:54033**
Buck, Bernhard *see* **Butzmann, Heinz-Peter, 98k:54066**
Butzmann, Heinz-Peter (*with* Buck, Bernhard) Free commutative convergence groups. **98k:54066**
Comfort, W. W. On the existence of group topologies. (English summary) **98h:54050**
— (*with* Masaveu, Oscar; Zhou, Hao Xuan) Resolvability in topology and in topological groups. (English summary) **98g:54088**
Dikranjan, Dikran N. (*with* Uspenskiĭ, Vladimir V.) Isomorphisms between homeomorphic connected compact-like abelian groups. (English summary) **98k:54067**
Gartside, P. M. (*with* Reznichenko, E. A.; Sipacheva, Olga V.) Mal'tsev and retral spaces. (English summary) **98e:54034**
Hernández, Salvador (*with* Sanchis, Manuel) Dugundji spaces in the coset space G/H. (English summary) **98e:54035**
Ho, Phoebe (*with* Plummer, Paul; So, Shing) Some results on compact convergence semigroups defined by filters. (English summary)
Hota, Sanju (*with* Purisch, S.; Rajagopalan, Minakshisundaram) Countably compact spaces which cannot be cancellative topological semigroups. (English summary) **98h:54051**
Itzkowitz, Gerald (*with* Shakhmatov, Dmitriĭ B.) Dense countably compact subgroups of compact groups. (English summary) **98k:54068**
Malykhin, V. I. *see* **Arkhangel'skiĭ, A. V., 98e:54033**
Marín, Josefa (*with* Romaguera, Salvador) Bicompleting the left quasi-uniformity of a paratopological group. (English summary) **98k:54069**
Masaveu, Oscar *see* **Comfort, W. W.; et al., 98g:54088**
Okunev, O. G. M-equivalence of products. (Russian. Russian summary) **98d:54070**
Plummer, Paul *see* **Ho, Phoebe; et al.**
Protasov, I. V. Absolute decomposability of the group of rational numbers. (Russian. English and Ukrainian summaries) **98g:54089**
— *see also* **Zelenyuk, E. G., 98k:54070**
Purisch, S. *see* **Hota, Sanju; et al., 98h:54051**
Rajagopalan, Minakshisundaram *see* **Hota, Sanju; et al., 98h:54051**
Reznichenko, E. A. *see* **Gartside, P. M.; et al., 98e:54034**
Romaguera, Salvador *see* **Marín, Josefa, 98k:54069**
Sanchis, Manuel *see* **Hernández, Salvador, 98e:54035**
Shakhmatov, Dmitriĭ B. *see* **Itzkowitz, Gerald, 98k:54068**
Shibakov, A. Metrizability of sequential topological groups with point-countable k-networks. (English summary) **98e:54036**
Sipacheva, Olga V. *see* **Gartside, P. M.; et al., 98e:54034**
So, Shing *see* **Ho, Phoebe; et al.**
Tkachenko, M. G. Embeddings of biuniform spaces into topological groups. (English summary) **98d:54071**
Tomita, Artur Hideyuki On finite powers of countably compact groups. (English summary) **98a:54033**
Uspenskiĭ, Vladimir V. *see* **Dikranjan, Dikran N., 98k:54067**
Zelenyuk, E. G. (*with* Protasov, I. V.) Nonresolvable and extremally disconnected topologies on groups. (Russian. English summary) **98k:54070**
Zhou, Hao Xuan *see* **Comfort, W. W.; et al., 98g:54088**

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Abd-Allah, A. M. (*with* Al-Rewili, Y. A.) Topologies for groups of transformation. (English and Arabic summaries)
Ahdout, Shahla (*with* Hurwitz, Carol; Itzkowitz, Gerald; Rothman, Sheldon; Strassberg, Helen) Maximal protori in compact topological groups. (English summary) **98b:22001**
Al-Rewili, Y. A. *see* **Abd-Allah, A. M.**
Arkhangel'skiĭ, A. V. (*with* Just, Winfried; Plebanek, Grzegorz) Sequential continuity on dyadic compacta and topological groups. (English summary) **98f:54014**
Arnautov, V. I. (*with* Topalĕ, A. G.) On the nonmodularity of the lattice of group topologies. (Russian. English, Russian and Moldavian summaries) **98k:22015**
Arvasi, Zekeriya *see* **Koçak, Mahmut, 98h:54005**
Bogopol'skiĭ, O. V. Infinite commensurable hyperbolic groups are bi-Lipschitz equivalent. (Russian. Russian summary) **98h:57002**
Burova, T. V. Topological characteristics of free bases of topological groups and topological vector spaces. (Russian. Russian summary) **98b:46010**
Buzyakova, Raushan Z. An example of a product of two normal groups that cannot be condensed to a normal space. (Russian) **98k:54008**
Clark, Bradd *see* **Clay, Ellen; et al., 98m:22001**
Clay, Ellen (*with* Clark, Bradd; Schneider, Victor P.) Using a set to construct a group topology. (English summary) **98m:22001**
Comfort, W. W. (*with* Remus, Dieter) Intervals of totally bounded group topologies. (English summary) **98k:22005**
— (*with* Trigos-Arrieta, F. Javier; Wu, Ta Sun) Correction to the paper: "The Bohr compactification, modulo a metrizable subgroup" [Fund. Math. **143** (1993), no. 2, 119–236; MR 94i:22013]. **98b:22005**
Dijkstra, Jan J. (*with* van Mill, Jan) Groups without convergent sequences. (English summary) **98f:22001**
Dikranjan, Dikran N. (*with* Shakhmatov, Dmitriĭ B.) Algebraic structure of pseudocompact groups. (English summary) **98j:22001**
Frič, Roman (*with* Zanolin, Fabio) Relatively coarse sequential convergence. (English summary) **98d:54006**
Galindo, Jorge (*with* Hernández, Salvador) On the completion of a MAP group. (English summary) **98i:22002**
García-Ferreira, Salvador On free p-compact groups. (English summary) **98k:22006**
Gusić, Ivica A topology on lattice ordered groups. (English summary) **98k:06017**
Hejcman, Jan On simple recognizing of bounded sets. (English summary) **98j:54046**
Hernández, Salvador *see* **Galindo, Jorge, 98i:22002**
Hindman, Neil Recent results on the algebraic structure of βS. (English summary) **98k:22007**
Hjorth, Greg (*with* Kechris, Alexander S.) New dichotomies for Borel equivalence relations. **98m:03101**
Hurwitz, Carol *see* **Ahdout, Shahla; et al., 98b:22001**
Itzkowitz, Gerald *see* **Ahdout, Shahla; et al., 98b:22001**
Just, Winfried *see* **Arkhangel'skiĭ, A. V.; et al., 98f:54014**
Kechris, Alexander S. *see* **Hjorth, Greg, 98m:03101**
Koçak, Mahmut (*with* Arvasi, Zekeriya) Near ultrafilters and compactification of topological groups. (English and Turkish summaries) **98h:54005**
van Mill, Jan *see* **Dijkstra, Jan J., 98f:22001**
Nogura, Tsugunori (*with* Shakhmatov, Dmitriĭ B.; Tanaka, Yoshio) α_4-property versus A-property in topological spaces and groups. (English summary) **98k:54001**
Plebanek, Grzegorz *see* **Arkhangel'skiĭ, A. V.; et al., 98f:54014**
Protasov, I. V. Absolutely resolvable groups. (Russian. English and Ukrainian summaries) **98d:20060**
Remus, Dieter (*with* Trigos-Arrieta, F. Javier) Locally convex spaces as subgroups of products of locally compact abelian groups. (English summary) **98f:46003**
— *see also* **Comfort, W. W., 98k:22005**
Riggins, Lemuel *see* **Wu, Ta Sun, 98h:22003**
Rothman, Sheldon *see* **Ahdout, Shahla; et al., 98b:22001**
Sankaran, Parameswaran (*with* Varadarajan, Kalathoor) Corrections to: "On certain homeomorphism groups" [J. Pure Appl. Algebra **92** (1994), no. 2, 191–197; MR 95e:22004]. **98b:22004**
Schneider, Victor P. *see* **Clay, Ellen; et al., 98m:22001**
Shakhmatov, Dmitriĭ B. A direct proof that every infinite compact group G contains $\{0,1\}^{w(G)}$. (English summary) **98k:22009**
— (*with* Tkachenko, M. G.; Tkachuk, Vladimir V.; Watson, W. Stephen; Wilson, Richard Gordon) Neither first countable nor Čech-complete spaces are maximal Tychonoff connected. (English summary) **98c:54014**
— *see also* **Dikranjan, Dikran N., 98j:22001** *and* **Nogura, Tsugunori; et al., 98k:54001**
Sipacheva, Olga V. On free topological groups with the inductive limit topologies. (English summary) **98m:22002**

Strassberg, Helen *see* **Ahdout, Shahla; et al., 98h:22001**
Tanaka, Yoshio *see* **Nogura, Tsugunori; et al., 98k:54001**
Tian, Yuan Uniform transformation groups on lower-dimensional spaces. (English summary) **98f:54030**
Tkachenko, M. G. *see* **Shakhmatov, Dmitriĭ B.; et al., 98c:54014**
Tkachuk, Vladimir V. *see* **Shakhmatov, Dmitriĭ B.; et al., 98c:54014**
Todorčević, Stevo ★ Topics in topology. **98g:54002**
Topalè, A. G. *see* **Arnautov, V. I., 98k:22015**
Trigos-Arrieta, F. Javier Products of locally pseudocompact topological groups. (English summary) **98k:22010**
— Normality and the weak topology on a locally compact abelian group. (English summary) **98m:22004**
— *see also* **Comfort, W. W.; et al., 98b:22005** *and* **Remus, Dieter, 98f:46003**
Varadarajan, Kalathoor *see* **Sankaran, Parameswaran, 98b:22004**
Watson, W. Stephen *see* **Shakhmatov, Dmitriĭ B.; et al., 98c:54014**
Wilson, Richard Gordon *see* **Shakhmatov, Dmitriĭ B.; et al., 98c:54014**
Wu, Ta Sun (*with* Riggins, Lemuel) Maximally almost periodic groups and a theorem of Glicksberg. (English summary) **98h:22003**
— *see also* **Comfort, W. W.; et al., 98b:22005**
Zanolin, Fabio *see* **Frič, Roman, 98d:54006**

54H12 Topological lattices, etc. [see also 06B30, 06F30]

Liu, Xiao Shi Some covering properties on topological molecular lattices. (Chinese. English and Chinese summaries)

Items with secondary classifications in 54H12

Ball, Richard N. (*with* McCleary, Stephen H.) The closure of a lattice-ordered permutation group. (English summary) **98m:06020**
Bimonte, G. (*with* Ercolessi, E.; Landi, Giovanni; Lizzi, Fedele; Sparano, G.; Teotonio-Sobrinho, Paulo) Lattices and their continuum limits. (English summary) **98b:58015**
— (*with* Ercolessi, E.; Landi, Giovanni; Lizzi, Fedele; Sparano, G.; Teotonio-Sobrinho, Paulo) Noncommutative lattices and their continuum limits. (English summary) **98b:58016**
Charalambous, M. G. The dimension of paracompact normal κ-frames. (English summary) **98d:54065**
Ercolessi, E. *see* **Bimonte, G.; et al., 98b:58015** *and* **98b:58016**
Grenier, Jean-Pierre Complétion d'une classe de demi-treillis topologiques, applications. (French summary) [Extension of a class of topological semilattices, applications] **98h:06012**
Heindorf, Lutz Another note on countable Boolean algebras. (English summary) **98c:06017**
Kirk, W. A. Hyperconvexity of R-trees. (English summary) **98k:54060**
Landi, Giovanni *see* **Bimonte, G.; et al., 98b:58015** *and* **98b:58016**
Lizzi, Fedele *see* **Bimonte, G.; et al., 98b:58015** *and* **98b:58016**
McCleary, Stephen H. *see* **Ball, Richard N., 98m:06020**
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Sparano, G. *see* **Bimonte, G.; et al., 98b:58015** *and* **98b:58016**
Teotonio-Sobrinho, Paulo *see* **Bimonte, G.; et al., 98b:58015** *and* **98b:58016**
Xie, Lin DCPO's for which the Scott open filter topology is T_0. (English summary) **98c:06008**
— (*with* Song, Yujing) On core compactness of semilattices and frames with the Scott open filter topology. (English summary) **98g:54073**
Zhang, De Xue Metrizable completely distributive lattices. (English summary) **98b:54040**

54H13 Topological fields, rings, etc. [see also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80.}

Bordan, V. G. Topological rings whose subrings are linearly compact. (English, Russian and Moldavian summaries) **98k:54071**
Collins, P. J. (*with* Gartside, P. M.) Mal'tsev spaces, retral spaces and rectifiable diagonals. (English summary) **98b:54050**
Costash, A. I. (*with* Ursul, M. I.) The group of units of a locally compact ring. (English, Russian and Moldavian summaries) **98k:54072**
Gartside, P. M. *see* **Collins, P. J., 98b:54050**
Magill, Kenneth D., Jr. Topological nearrings on the Euclidean plane. (English summary) **98g:54090**
Shell, Niel Big sets. (English summary) **98g:54091**
— Residue class topologies. (English summary) **98d:54072**
Ursul, M. I. *see* **Costash, A. I., 98k:54072**
Woracek, Harald Inductive topologies in universal algebras. **98h:54052**

Items with secondary classifications in 54H13

Arizmendi Peimbert, Hugo (*with* Tonev, T.) Bourgain algebras of topological algebras. (English summary) **98b:46069**
Cohen, Jo-Ann (*with* Koh, Kwangil) Topological and algebraic properties of the subgroup generated by the involutions in a compact ring. (English summary) (*see* **98d:54001**)
Dow, Alan (*with* Junnila, H.; Pelant, Jan) Weak covering properties of weak topologies. **98i:54010**
Frič, Roman (*with* Zanolin, Fabio) Relatively coarse sequential convergence. (English summary) **98d:54006**
Junnila, H. *see* **Dow, Alan; et al., 98i:54010**
Koh, Kwangil *see* **Cohen, Jo-Ann, (98d:54001)**
Magill, Kenneth D., Jr. Topological N-groups where the nearrings are real nearrings. **98m:16058**
— A survey of topological nearrings and nearrings of continuous functions. (English summary) **98m:16059**
Pelant, Jan *see* **Dow, Alan; et al., 98i:54010**
Tonev, T. *see* **Arizmendi Peimbert, Hugo, 98b:46069**
Zanolin, Fabio *see* **Frič, Roman, 98d:54006**

54H15 Transformation groups and semigroups [see also 20M20, 22–XX, 57Sxx]

Abd-Allah, A. M. (*with* Al-Rewili, Y. A.) Topologies for groups of transformation. (English and Arabic summaries)
Al-Rewili, Y. A. *see* **Abd-Allah, A. M.**
Bernardes, Nilson C., Jr. A property of semigroups on metric spaces. **98h:54053**
Gerko, A. I. On properties, asymptotic with respect to extension, of points of topological transformation semigroups. (Russian. English, Russian and Moldavian summaries) **98g:54092**
— Distal N-fans extensions of minimal topological transformation semigroups. (English, Russian and Moldavian summaries) **98j:54065**
Giordano, Thierry (*with* de la Harpe, Pierre) Moyennabilité des groupes dénombrables et actions sur les espaces de Cantor. (English and French summaries) [Amenability of countable groups and actions on Cantor sets] **98c:54032**
de la Harpe, Pierre *see* **Giordano, Thierry, 98c:54032**
Lashkarizadeh Bami, Mahmood On some topologies which coincide on $\mathcal{R}_r(S)$ for a foundation topological semigroup S. (English summary) **98m:54041**
Lee, Young Chan A necessary and sufficient condition for the generalized regular relation to be transitive. (English summary) **98g:54093**
Megrelishvili, Michael Free topological groups over (semi) group actions. (English summary) **98g:54094**
Qi, Dong Wen Enveloping semigroup and proximity relations in topological dynamics. (English and Chinese summaries) **98c:54033**
Tian, Yuan Uniform transformation groups on lower-dimensional spaces. (English summary) **98f:54030**

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Aguirre, Luis *see* **Seibert, Peter; et al., 98d:34083**
Arredondo Ruiz, J. H. *see* **Seibert, Peter; et al., 98d:34083**
Delgado Fernández, Joaquín *see* **Seibert, Peter; et al., 98d:34083**
Dranishnikov, A. N. (*with* West, J. E.) Compact group actions that raise dimension to infinity. (English summary) **98i:55006**
Haddad, Kamel N. (*with* Johnson, Aimee S. A.) Auslander systems. (English summary) **98a:54034**
Janoš, Ludvík Compactification and linearization of abstract dynamical systems. (English summary) **98j:54071**
Johnson, Aimee S. A. *see* **Haddad, Kamel N., 98a:54034**
Magill, Kenneth D., Jr. Largest proper ideals of transformation semigroups. **98a:20072**
Pavone, M. Bilateral denseness of the hyperbolic limit points of groups acting on metric spaces. **98h:57063**
Popa, Valeriu Connectivity in homomorphism groups. (English, Russian and Moldavian summaries) **98j:54029**
Seibert, Peter (*with* Arredondo Ruiz, J. H.; Delgado Fernández, Joaquín; Aguirre, Luis) Reduction theorems for uniform stability of systems in general spaces. (English summary) **98d:34083**
Shereshevskiĭ, M. A. On continuous actions commuting with actions of positive entropy. **98f:54035**
Singh, Sangita *see* **Srivastava, Pramila, 98d:54026**
Solecki, S. (*with* Srivastava, S. M.) Automatic continuity of group operations. (English summary) **98j:22002**
Srivastava, Pramila (*with* Singh, Sangita) ψX in the categorical perspective and the proximal adjunction space. (English summary) **98d:54026**
Srivastava, S. M. *see* **Solecki, S., 98j:22002**
West, J. E. *see* **Dranishnikov, A. N., 98i:55006**
Zhitomirskiĭ, G. I. Restrictive semigroups and sheaves. (English summary) **98j:20092**

54H20 Topological dynamics [see also 28Dxx, 34C35, 58Fxx]

Akin, Ethan Enveloping linear maps. (English summary) **98j:54066**
— (*with* Glasner, Eli) Topological ergodic decomposition and homogeneous flows. (English summary) **98j:54067**
Alsedà, Lluís (*with* Baldwin, Stewart; Llibre, Jaume; Misiurewicz, Michał) Entropy of transitive tree maps. (English summary) **98f:54031**
Auslander, Joseph (*with* Markley, N. G.) Isomorphism classes of products of powers for graphic flows. (English summary) **98d:54073**
— Weak mixing and pure weak mixing minimal flows. (English summary) **98j:54068**
Baldwin, Stewart *see* **Alsedà, Lluís; et al., 98f:54031**
Ball, Richard N. (*with* Hagler, James N.) The Gleason cover of a flow. (English summary) **98g:54095**
Banks, John Regular periodic decompositions for topologically transitive maps. (English summary) **98d:54074**
Barge, Marcy Periodic points for an orientation preserving homeomorphism of the plane near an invariant immersed line. (English summary) **98b:54051**
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Yen, Chi-Lin *see* **Chang, Tong-Huei, 98a:47059**
Yuan, Xian-Zhi (*with* Tarafdar, Enayet) Fixed points, maximal elements and equilibria of generalized games in topological spaces. (English summary) **98m:90190**
— (*with* Smith, Bruce Ralph; Lou, Shituo) Fixed point and coincidence theorems of set-valued mappings in topological vector spaces with some applications. **98j:47139**
— *see also* **Tarafdar, Enayet, 98h:54027** *and* **98k:47142**
Zanolin, Fabio Continuation theorems for the periodic problem via the translation operator. (English summary) **98k:34076**
— *see also* **Rebelo, Carlota, 98m:34090**
Zhang, Fu-bao *see* **Zhang, Shi Sheng; et al., 98d:49014**
Zhang, Shi Sheng (*with* Ma, Yi-hai; Zhang, Fu-bao) On a new theorem of generalized KKM mappings on H-spaces with applications. (English summary) **98d:49014**
Zhang, Xiao Lan Fixed point theorems on W-space with applications to equilibrium. (English and Chinese summaries) **98m:47100**
Zhang, Xiu Zhi Coupled quasi-fixed point theorems for mixed monotone mappings and their application. (Chinese. Chinese summary) **98d:47142**
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54H99 None of the above, but in this section

Bognár, M. On Peano mappings. **98b:54059**

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Bak, Anthony Global actions: an algebraic double of a topological space. (Russian) **98k:18004**
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Holwerda, Henk (*with* Vervaat, Wim) Lattices of capacities, and related topologies. (English summary) **98i:28006**
Huang, Jin Neng (*with* Yi, Jian Xin; Liu, Yun) The homotopic property of near homeomorphisms. (Chinese. English and Chinese summaries)
Koganov, A. V. Processes and automorphisms on inductor spaces. (English summary) **98c:18005**
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Nakamura, Yatsuka (*with* Shidama, Yasunari) A theory of function lattices on finite topological spaces for image processing. (English summary) **98h:68228**
Protasov, I. V. Ideals and free pairs in the semigroup $\beta\mathbf{Z}$. (Russian. English and Ukrainian summaries) **98j:20088**
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Stoyan, Yu. G. Interval mappings. (Russian. English summary) **98e:65043**
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Vervaat, Wim *see* **Holwerda, Henk, 98i:28006**
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Yi, Jian Xin *see* **Huang, Jin Neng; et al.**

54J05 Nonstandard topology [see also 03H05]

Brunet, Bernard Sur l'épaisseur d'un espace topologique. [On the thickness of a topological space] (*see* **98a:00009**)
Chen, Dong Li An infinitesimal prolongation theorem for nets and its application. (Chinese. English and Chinese summaries) **98b:54060**
Feng, Hanqiao *see* **Zhang, Fu Tai**
Loeb, Peter Albert Nonstandard analysis and topology. (*see* **98i:03006**)
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Ortiz, C. E. Approximate truth and nonstandard analysis. (English summary) (*see* **98h:03084**)
Schilling, Kenneth (*with* Živaljević, Boško) Louveau's theorem for the descriptive set theory of internal sets. (English summary) **98j:03096**
Schlesinger, Karl-Georg Stability concepts in topological dynamics by nonstandard methods. (English summary) **98j:54076**
Vakil, Nader Pseudo-uniform convergence, a nonstandard treatment. (English summary) **98c:46029**
Zhang, Fu Tai Topologies derived from an internal hyperreal metric. (Chinese. English and Chinese summaries)
Živaljević, Boško *see* **Schilling, Kenneth, 98j:03096**

55–XX Algebraic topology

55–01 Instructional exposition (textbooks, tutorial papers, etc.)

Bliznyakov, N. M. *see* **Borisovich, Yu. G.; et al., 98f:55001**
Borisovich, Yu. G. (*with* Bliznyakov, N. M.; Izrailevich, Ya. A.; Fomenko, T. N.) ★ Введение в топологию. (Russian. English and Russian summaries) [Introduction to topology] **98f:55001**
Fomenko, T. N. *see* **Borisovich, Yu. G.; et al., 98f:55001**
Izrailevich, Ya. A. *see* **Borisovich, Yu. G.; et al., 98f:55001**
Selick, Paul ★ Introduction to homotopy theory. (English summary) **98h:55001**

55–02 Research exposition (monographs, survey articles)

Živaljević, Rade T. User's guide to equivariant methods in combinatorics. **98c:55001**

Items with secondary classifications in 55–02

Bredon, Glen E. ★ Sheaf theory. (English summary) **98g:55005**
Dror Farjoun, Emmanuel ★ Cellular spaces, null spaces and homotopy localization. **98f:55010**

55–03 Historical (must also be assigned at least one classification number from Section 01)

Mardešić, Sibe Thirty years of shape theory. (English and Croatian summaries) **98e:55001**

Items with secondary classifications in 55–03

Luna Torres, Joaquín Carlos J. Ruiz Salguero and topology. (Spanish) **98f:01046**
Poincaré, Henri ★ Œuvres. Tome VI. (French) [Works. Vol. VI] **98m:01041**
(Ruiz Salguero, Carlos J.) *see* **Luna Torres, Joaquín, 98f:01046**

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Poincaré, Henri *see* **Poincaré, Henri, 98m:01041**

55–04 Explicit machine computation and programs (not the theory of computation or programming)

Rubio García, Julio Jesús Erratum to: "Integrating functional programming and symbolic computation" [Math. Comput. Simulation **42** (1996), no. 4-6, 467–473; MR 97j:55003]. (English summary) **98j:55001**

55–06 Proceedings, conferences, collections, etc.

Items with secondary classifications in 55–06

(Adem, Alejandro) *see* **Group representations: cohomology, group actions and topology, 98h:20002**
(Carlson, Jon F.) *see* **Group representations: cohomology, group actions and topology, 98h:20002**
(Priddy, Stewart) *see* **Group representations: cohomology, group actions and topology, 98h:20002**
(Snaith, Victor P.) *see* **Algebraic K-theory, 98d:19001**
(Webb, Peter) *see* **Group representations: cohomology, group actions and topology, 98h:20002**

Items listed otherwise than by author

Algebraic K-theory ★ Algebraic K-theory. **98d:19001**
Conference:
Algebraic K-Theory ★ Algebraic K-theory. **98d:19001**
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Cohomology, Representations, and Actions of Finite Groups ★ Group representations: cohomology, group actions and topology. **98h:20002**
Seattle, WA ★ Group representations: cohomology, group actions and topology. **98h:20002**
Toronto, ON ★ Algebraic K-theory. **98d:19001**

55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx.}

55M05 Duality

Väisälä, Jussi Metric duality in Euclidean spaces. **98i:55001**

Items with secondary classifications in 55M05

Bauer, Friedrich W. A strong shape theory with S-duality. (English summary) **98g:55012**
— A functional S-dual in a strong shape category. (English summary) **98k:55012**
Benson, David John (*with* Greenlees, J. P. C.) Commutative algebra for cohomology rings of virtual duality groups. (English summary) **98d:20057**
Greenlees, J. P. C. *see* **Benson, David John, 98d:20057**
Krushkal, Vyacheslav S. (*with* Teichner, Peter) Alexander duality, gropes and link homotopy. (English summary) **98i:57013**
Teichner, Peter *see* **Krushkal, Vyacheslav S., 98i:57013**

55M10 Dimension theory [see also 54F45]

Dranishnikov, A. N. (*with* Repovš, Dušan D.) Cohomological dimension with respect to perfect groups. (English summary) **98e:55002**
— On Chogoshvili's conjecture. (English summary) **98c:55002**
— On the virtual cohomological dimensions of Coxeter groups. (English summary) **98d:55001**
Dydak, Jerzy Extension theory: the interface between set-theoretic and algebraic topology. (English summary) **98c:55003**
Goto, Tatsuo Metric dimension of the intersections of a point set with hyperplanes. (English summary) **98k:55001**
Koyama, A. (*with* Sher, R. B.) Approximable dimension and acyclic resolutions. (English summary) **98a:55001**
Repovš, Dušan D. *see* **Dranishnikov, A. N., 98e:55002**
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Items with secondary classifications in 55M10

Boyle, Mike (*with* Handelman, David) Orbit equivalence, flow equivalence and ordered cohomology. (English summary) **98a:46082**
Daverman, R. J. (*with* Dranishnikov, A. N.) Cell-like maps and aspherical compacta. **98h:54045**
Dranishnikov, A. N. Cohomology, dimension and large Riemannian manifolds. (English summary) **98i:54018**
— (*with* Uspenskii, Vladimir V.) Light maps and extensional dimension. (English summary) **98j:54060**
— *see also* **Daverman, R. J., 98h:54045**
Goto, Tatsuo Dimension and ε-translations. (English summary) **98c:54029**
Handelman, David *see* **Boyle, Mike, 98a:46082**
Karimov, U. Kh. (*with* Repovš, Dušan D.) On $\tilde{H}^n$-bubbles in n-dimensional compacta. **98k:55002**
Repovš, Dušan D. *see* **Karimov, U. Kh., 98k:55002**
Urbański, Mariusz A new transfinite dimension for metrizable spaces. (English summary) **98a:54030**
Uspenskii, Vladimir V. *see* **Dranishnikov, A. N., 98j:54060**

55M15 Absolute neighborhood retracts [see also 54C55]

Items with secondary classifications in 55M15

Dranishnikov, A. N. (*with* Uspenskii, Vladimir V.) Light maps and extensional dimension. (English summary) **98j:54060**
Uspenskii, Vladimir V. *see* **Dranishnikov, A. N., 98j:54060**

55M20 Fixed points and coincidences [see also 54H25]

Aarts, Jan M. (*with* Fokkink, Robbert J.; Vermeer, Johannes) Variations on a theorem of Lusternik and Schnirelmann. (English summary) **98e:55003**
— (*with* Fokkink, Robbert J.) Coincidence and the colouring of maps. (English summary) **98j:55002**
Azad, K. K. (*with* Srivastava, Kavita) On S-equivariant complete invariance property. **98i:55002**
Borisovich, A. Yu. (*with* Kucharski, Z.; Marzantowicz, Wacław) Relative Nielsen number and a lower estimate of the number of components of an algebraic set. (Russian summary) **98a:55002**
Dzedzej, Zdzisław (*with* Graff, Grzegorz) Fixed point index for G-equivariant multivalued maps. **98j:55003**
Ferrario, Davide Fixed points in bouquets of circles. (English summary) **98m:55001**
Fokkink, Robbert J. *see* **Aarts, Jan M.; et al., 98e:55003** *and* **98j:55002**
Gonçalves, Daciberg Lima (*with* de Oliveira, Edson) The Lefschetz coincidence number for maps among compact surfaces. (English summary)
— (*with* Jezierski, Jerzy) Lefschetz coincidence formula on non-orientable manifolds. (English summary) **98m:55002**
— Coincidence Reidemeister classes on nilmanifolds and nilpotent fibrations. (English summary) **98m:55003**
Graff, Grzegorz *see* **Dzedzej, Zdzisław, 98j:55003**
Heath, Philip R. (*with* Keppelmann, Ed) Fibre techniques in Nielsen periodic point theory on nil and solvmanifolds. I. (English summary) **98e:55004**
— (*with* Zhao, Xuezhi) Nielsen numbers for based maps, and for noncompact spaces. (English summary) **98h:55002**
Hemmi, Yutaka (*with* Morisugi, Kaoru; Oshima, Hideaki) Self maps of spaces. **98e:55005**
Jaworowski, Jan Borsuk-Ulam type theorems for orthogonal groups. **98f:55002**
Jezierski, Jerzy *see* **Gonçalves, Daciberg Lima, 98m:55002**
Kelly, Michael R. A bound on the fixed-point index for surface mappings. (English summary) **98m:55004**
Keppelmann, Ed *see* **Heath, Philip R., 98e:55004**
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Lee, Seoung Ho A relative Nielsen coincidence number for the complement. I. **98a:55003**
Marzantowicz, Wacław *see* **Borisovich, A. Yu.; et al., 98a:55002**
McCord, Christopher K. A Nielsen theory for intersection numbers. (English summary) **98b:55001**
— Lefschetz and Nielsen coincidence numbers on nilmanifolds and solvmanifolds. II. (English summary) **98a:55004**
Morisugi, Kaoru *see* **Hemmi, Yutaka; et al., 98e:55005**
Nolan, Jeanine K. Fixed points of boundary-preserving maps of punctured discs. (English summary) **98a:55005**
de Oliveira, Edson *see* **Gonçalves, Daciberg Lima**
Oshima, Hideaki *see* **Hemmi, Yutaka; et al., 98e:55005**
Plavchak, Thomas A polyhedral transversality theorem for one-parameter fixed point theory. (English summary) **98h:55003**

Srivastava, Kavita *see* **Azad, K. K., 98i:55002**
Srzednicki, Roman Generalized Lefschetz theorem and a fixed point index formula. (English summary) **98i:55003**
Su, Francis Edward Borsuk-Ulam implies Brouwer: a direct construction. **98i:55004**
Tang, Bing Kang Continuous maps from a torus into a sphere. (Chinese. English and Chinese summaries)
Vermeer, Johannes *see* **Aarts, Jan M.; et al., 98e:55003**
Wolfenden, Peter Fixed point sets of deformations of polyhedra with local cut points. (English summary) **98h:55004**
Wong, Peter Ngai-Sing Fixed-point theory for homogeneous spaces. (English summary) **98m:55005**
Zhao, Xuezhi *see* **Heath, Philip R., 98h:55002**
Zhong, Cheng Kui $S^1 \times S^1$-Borsuk-Ulam theorem on product spaces. (English summary) **98c:55004**

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Ding, Hongyu Classification of cyclic group actions on noncompact surfaces. (English summary) **98e:57023**
Ding, Xie Ping Coincidence theorems involving composites of acyclic mappings in contractible spaces. (English summary)
Dwyer, W. G. (*with* Møller, Jesper Michael) Homotopy fixed points for cyclic p-group actions. (English summary) **98d:55013**
Hayakawa, Eijirou Errata to: "A sufficient condition for the existence of periodic points of homeomorphisms on surfaces" [Tokyo J. Math. **18** (1995), no. 1, 213–219; MR 96b:58092]. **98i:58192**
Huang, Bao Jun The topological entropy of homotopy classes of maps. (Chinese. English and Chinese summaries) **98i:54007**
Kaiser, Tomás Transversals of d-intervals. (English summary) **98e:52004**
Kang, Eun Sook (*with* Lee, Kyung Bai) Fixed point theory on Seifert manifolds modeled on $S^2 \times \mathbf{R}$. (English summary) **98d:57023**
Kim, In-Sook Selection theorems with n-connectedness. (English summary) **98k:54031**
Kulpa, Władysław The Poincaré-Miranda theorem. **98j:01023**
Lam, Kee Yuen Borsuk-Ulam type theorems and systems of bilinear equations. (English summary) **98i:57040**
Lee, Kyung Bai *see* **Kang, Eun Sook, 98d:57023**
Lovász, László (*with* Schrijver, Alexander) A Borsuk theorem for antipodal links and a spectral characterization of linklessly embeddable graphs. (English summary) **98j:05059**
Møller, Jesper Michael *see* **Dwyer, W. G., 98d:55013**
Park, Sehie Extensions of best approximation and coincidence theorems. (English summary) **98h:41043**
Paulin, Frédéric Sur les automorphismes extérieurs des groupes hyperboliques. (English summary) [On outer automorphisms of hyperbolic groups] **98c:20070**
Schrijver, Alexander *see* **Lovász, László, 98j:05059**
Shashkin, Yu. A. Variants of the Tucker combinatorial lemma. (Russian. English and Russian summaries) **98i:57047**
Tarafdar, Enayet (*with* Yuan, Xian-Zhi) Topological intersection theorems of set-valued mappings without closed graphs and their applications. **98h:54027**
Yuan, Xian-Zhi *see* **Tarafdar, Enayet, 98h:54027**
Živaljević, Rade T. User's guide to equivariant methods in combinatorics. **98c:55001**

55M25 Degree, winding number

Krawcewicz, W. (*with* Vivi, P.; Wu, Jian Hong) Computation formulae of an equivariant degree with applications to symmetric bifurcations. (English summary) **98h:55005**
Łęcki, Andrzej (*with* Szafraniec, Zbigniew) An algebraic method for calculating the topological degree. **98b:55002**
Ligatsikas, Zenon *see* **Sakkalis, Takis, 98g:55002**
Ramani, Vimala (*with* Sankaran, Parameswaran) On degrees of maps between Grassmannians. (English summary) **98d:55002**
Sakkalis, Takis (*with* Ligatsikas, Zenon) Computing the topological degree of polynomial maps. (English summary) **98g:55002**
Sankaran, Parameswaran *see* **Ramani, Vimala, 98d:55002**
Schaer, J. Continuous self-maps of the circle. (English summary) **98e:55006**
Szafraniec, Zbigniew *see* **Łęcki, Andrzej, 98b:55002**
Vivi, P. *see* **Krawcewicz, W.; et al., 98h:55005**
Wu, Jian Hong *see* **Krawcewicz, W.; et al., 98h:55005**
Yokoyama, Misako Computing the topological degree with noisy information. (English summary) **98d:55003**

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Andres, Jan (*with* Górniewicz, Lech; Lewicka, Marta) Partially dissipative periodic processes. (English summary) **98d:47129**
Bader, Ralf A sufficient condition for the existence of multiple periodic solutions of differential inclusions. **98b:34030**
Benkafadar, N. M. (*with* Gel'man, B. D.) On the local degree for a class of multivalued fields. (Russian) **98k:47119**
Filippov, V. V. Homological properties of sets of solutions of ordinary differential equations. (Russian. Russian summary) **98i:34065**
Fine, Benjamin (*with* Rosenberger, Gerhard) ★ The fundamental theorem of algebra. (English summary) **98h:30001**
Garay, Barnabas M. (*with* Kloeden, Peter E.) Discretization near compact invariant sets. (English summary) **98k:65038**
Gęba, Kazimierz Degree for gradient equivariant maps and equivariant Conley index. **98h:58024**
Gel'man, B. D. *see* **Benkafadar, N. M., 98k:47119**
Górniewicz, Lech *see* **Andres, Jan; et al., 98d:47129**
Hemmi, Yutaka (*with* Morisugi, Kaoru; Oshima, Hideaki) Self maps of spaces. **98e:55005**
Ize, Jorge (*with* Vignoli, Alfonso) Equivariant degree for abelian actions. II. Index computations. **98k:58049**
Kamenskiĭ, Mikhail (*with* Obukhovskiĭ, Valeri) On the operator of translation along the trajectories of semilinear controlled systems. (Russian. Russian summary) **98c:34029**
Kloeden, Peter E. *see* **Garay, Barnabas M., 98k:65038**
Lewicka, Marta *see* **Andres, Jan; et al., 98d:47129**
Morisugi, Kaoru *see* **Hemmi, Yutaka; et al., 98e:55005**
Mrozek, Marian The Conley index and rigorous numerics. **98i:58161**
Nolan, Jeanine K. Fixed points of boundary-preserving maps of punctured discs. (English summary) **98a:55005**
Obukhovskiĭ, Valeri *see* **Kamenskiĭ, Mikhail, 98c:34029**
Oshima, Hideaki *see* **Hemmi, Yutaka; et al., 98e:55005**
Rosenberger, Gerhard *see* **Fine, Benjamin, 98h:30001**
Rybicki, Sławomir Applications of degree for S^1-equivariant gradient maps to variational nonlinear problems with S^1-symmetries. **98k:58077**
Szymczak, Andrzej A combinatorial procedure for finding isolating neighbourhoods and index pairs. (English summary) **98i:58151**
Vignoli, Alfonso *see* **Ize, Jorge, 98k:58049**
Zabrejko, Petr Petrovich Rotation of vector fields: definition, basic properties, and calculation. (English summary) **98d:47145**

55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space

Colman Vale, Hellen Local fibrewise category. (English and French summaries) **98c:55005**
Hausmann, Jean-Claude On minimal coverings in the sense of Lusternik-Schnirelmann for spaces and manifolds. **98j:55004**
Korbaš, Július (*with* Szűcs, András) The Lyusternik-Shnirel'man category, vector bundles, and immersions of manifolds. (English summary) **98m:55006**
Marzantowicz, Wacław Equivariant category of the free part of a G-manifold and of the sphere of spherical harmonics. (English summary) **98i:55005**
Nikonorov, Yu. G. Inscribed balls and the Lyusternik-Shnirel'man category. (Russian. Russian summary) **98h:55006**
Scheerer, Hans (*with* Tanré, Daniel) Fibrations à la Ganea. (French. French summary) **98g:55003**
Szűcs, András *see* **Korbaš, Július, 98m:55006**
Tanré, Daniel *see* **Scheerer, Hans, 98g:55003**

Items with secondary classifications in 55M30

De Concini, Corrado (*with* Salvetti, Mario; Stumbo, Fabio) The top-cohomology of Artin groups with coefficients in rank-1 local systems over **Z**. (English summary) **98h:20063**
Gatsinzi, J.-B. LS category of classifying spaces and 2-cones. (English summary) **98h:55018**
Ndombol, Bitjong L'invariant Acat des algèbres quasi-commutatives. (French summary) [The invariant Acat of quasicommutative algebras] **98b:55020**
Salvetti, Mario *see* **De Concini, Corrado; et al., 98h:20063**
Stumbo, Fabio *see* **De Concini, Corrado; et al., 98h:20063**
Viterbo, Claude Some remarks on Massey products, tied cohomology classes, and the Lusternik-Shnirelman category. **98a:58033**

55M35 Finite groups of transformations (including Smith theory) [see also 57S17]

Dranishnikov, A. N. (*with* West, J. E.) Compact group actions that raise dimension to infinity. (English summary) **98i:55006**
Kim, In-Sook Extensions of the Borsuk-Ulam theorem. (English summary) **98f:55003**
West, J. E. *see* **Dranishnikov, A. N., 98i:55006**

Items with secondary classifications in 55M35

Kang, Eun Sook (*with* Lee, Kyung Bai) Fixed point theory on Seifert manifolds modeled on $S^2 \times \mathbf{R}$. (English summary) **98d:57023**
Kwasik, Sławomir (*with* Schultz, Reinhard) Isolated fixed points of circle actions on 4-manifolds. (English summary) **98i:57027**
Lee, Kyung Bai *see* **Kang, Eun Sook, 98d:57023**
Lee, Ronnie (*with* Weintraub, Steven H.) Invariants of branched covering from the work of Serre and Mumford. (English summary) **98i:57002**
Lima-Filho, P. On the equivariant homotopy of free abelian groups on G-spaces and G-spectra. **98i:55014**
Schaer, J. Continuous self-maps of the circle. (English summary) **98e:55006**
Schultz, Reinhard *see* **Kwasik, Sławomir, 98i:57027**
Weintraub, Steven H. *see* **Lee, Ronnie, 98i:57002**

55M99 None of the above, but in this section

Items with secondary classifications in 55M99

Bertrand, Gilles (*with* Malgouyres, Rémy) Some topological properties of discrete surfaces. (English summary) **98k:68174**
Ciesielski, Krzysztof The Jordan curve-type theorems for the funnel in 2-dimensional semiflows. (English summary) **98g:54096**
Malgouyres, Rémy *see* **Bertrand, Gilles, 98k:68174**

55Nxx Homology and cohomology theories [see also 57Txx]

55N05 Čech types

Karimov, U. Kh. (*with* Repovš, Dušan D.) On $\check{H}^n$-bubbles in n-dimensional compacta. **98k:55002**
Repovš, Dušan D. *see* **Karimov, U. Kh., 98k:55002**

Items with secondary classifications in 55N05

Biasi, Carlos (*with* Saeki, Osamu) Self-intersection set of a generic map and a characterization of embeddings. (English summary) **98c:57034**
— (*with* Saeki, Osamu) On the Betti number of the image of a generic map. (English summary) **98i:57056**
Block, Jonathan (*with* Lazarev, A. Yu.) Homotopy theory and generalized duality for spectral sheaves. **98b:18020**
Goldfarb, Boris Novikov conjectures for arithmetic groups with large actions at infinity. (English summary) **98h:19008**
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Sklyarenko, E. G. Cohomology with carriers. (Russian) **98b:55006**

55N07 Steenrod-Sitnikov homologies

Ferry, Steven C. Remarks on Steenrod homology. **98d:55004**
Lee, Dae-Woong *see* **Lee, Hong-Jae, 98j:55005**
Lee, Hong-Jae (*with* Lee, Dae-Woong) Strong homology groups w.r.t. $\sum_{p\in\mathbb{Z}} \overline{C}^p(\mathscr{X}; R)$. **98j:55005**
Milnor, John W. On the Steenrod homology theory. **98d:55005**

Items with secondary classifications in 55N07

Hughes, C. Bruce (*with* Ranicki, Andrew) ★ Ends of complexes. (English summary) **98f:57039**
Ranicki, Andrew *see* **Hughes, C. Bruce, 98f:57039**

55N10 Singular theory

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Benson, David John (*with* Greenlees, J. P. C.) Commutative algebra for cohomology rings of classifying spaces of compact Lie groups. (English summary) **98j:57054**
Greenlees, J. P. C. *see* **Benson, David John, 98j:57054**

55N15 K-theory [see also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX.}

Bousfield, A. K. On λ-rings and the K-theory of infinite loop spaces. (English summary) **98a:55006**
Brunetti, Maurizio Morava K-theories and dihedral groups. (English summary) **98f:55004**
Greenlees, J. P. C. (*with* Sadofsky, Hal) Tate cohomology of theories with one-dimensional coefficient ring. (English summary) **98k:55003**
Iriye, K. (*with* Mimura, Mamoru; Shimakawa, K.; Yasuo, M.) A quaternionic analogue of Atiyah's real K-theory. **98h:55007**
Johnson, David Copeland (*with* Wilson, W. Stephen) On a theorem of Ossa. (English summary) **98b:55003**
Kashiwabara, Takuji (*with* Strickland, Neil P.; Turner, Paul R.) The Morava K-theory Hopf ring for BP. **98c:55006**
Kordzaya, K. D. (*with* Nishida, Goro) A duality theorem in Hopf algebras and its application to Morava K-theory of $B\mathbb{Z}/p^r$. **98c:55007**
Mimura, Mamoru *see* **Iriye, K.; et al., 98h:55007**
Nishida, Goro *see* **Kordzaya, K. D., 98c:55007**
Nishimura, Yasuzo (*with* Yosimura, Zen-ichi) The quasi KO_*-types of weighted projective spaces. **98d:55006**
Sadofsky, Hal *see* **Greenlees, J. P. C., 98k:55003**
Shimakawa, K. *see* **Iriye, K.; et al., 98h:55007**
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Turner, Paul R. *see* **Kashiwabara, Takuji; et al., 98c:55006**
Watanabe, Takashi The KO-cohomology ring of $\mathrm{SU}(2n)/\mathrm{SO}(2n)$. (English summary) **98c:55008**
Wilson, W. Stephen *see* **Johnson, David Copeland, 98b:55003**
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Dwyer, W. G. (*with* Mitchell, Stephen A.) On the K-theory spectrum of a smooth curve over a finite field. **98g:19006**
Gilkey, Peter B. *see* **Botvinnik, B. I.; et al., 98i:58227**
Hesselholt, Lars (*with* Madsen, Ib) Cyclic polytopes and the K-theory of truncated polynomial algebras. **98k:19002**
Hubbuck, J. R. Numerical forms. (English summary) **98d:11043**
Madsen, Ib *see* **Hesselholt, Lars, 98k:19002**
Marquis, Jean-Pierre Abstract mathematical tools and machines for mathematics. (English summary) **98f:00014**
Minami, Haruo On the K-theory of PE_6. **98h:19009**
Mitchell, Stephen A. *see* **Dwyer, W. G., 98g:19006**
Morimoto, Masaharu On fixed point data of smooth actions on spheres. **98d:57064**
Nicolaescu, Liviu I. Generalized symplectic geometries and the index of families of elliptic problems. (English summary) **98a:58156**
Osse, Akimou λ-structures and representation rings of compact connected Lie groups. (English summary) **98k:55017**
Stolz, Stephan *see* **Botvinnik, B. I.; et al., 98i:58227**

55N20 Generalized (extraordinary) homology and cohomology theories

Arlettaz, Dominique The exponent of the homotopy groups of Moore spectra and the stable Hurewicz homomorphism. (English summary) **98a:55007**
Brunetti, Maurizio The multiplicative structure of $K(n)^*(BA_4)$. (English summary) **98i:55007**
Costinescu, Cristian-Nicolae Some generalizations of a theorem of Dold. (English summary) (*see* **98k:53002**)
Devinatz, Ethan S. Morava modules and Brown-Comenetz duality. (English summary) **98i:55008**
Morava, Jack Quantum generalized cohomology. (English summary) **98a:55008**
Rudyak, Yu. B. The spectra k and kO are not Thom spectra. (English summary) **98m:55007**

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— A functional S-dual in a strong shape category. (English summary) **98k:55012**
Carlsson, Gunnar (*with* Pedersen, Erik Kjær; Vogell, Wolrad) Continuously controlled algebraic K-theory of spaces and the Novikov conjecture. **98k:19001**
Greenlees, J. P. C. (*with* Sadofsky, Hal) Tate cohomology of theories with one-dimensional coefficient ring. (English summary) **98k:55003**
Hakim-Hashemi, Mehdi (*with* Kahn, Donald W.) A generalization of the Atiyah-Hirzebruch spectral sequence. (English summary) **98b:55019**
Henn, Hans-Werner Centralizers of elementary abelian p-subgroups, the Borel construction of the singular locus and applications to the cohomology of discrete groups. **98g:57060**
Hovey, Mark A. (*with* Palmieri, John H.; Strickland, Neil P.) Axiomatic stable homotopy theory. (English summary) **98a:55017**
Kahn, Donald W. *see* **Hakim-Hashemi, Mehdi, 98b:55019**
Kashiwabara, Takuji (*with* Strickland, Neil P.; Turner, Paul R.) The Morava K-theory Hopf ring for BP. **98c:55006**
Kim, Hong-Jong Cohomology of flat vector bundles. (English summary) **98f:57049**
Leary, Ian J. (*with* Schuster, Björn) On the $\mathrm{GL}(V)$-module structure of $K(n)^*(BV)$. (English summary) **98e:55016**
May, J. Peter Stable algebraic topology and stable topological algebra. **98k:55009**
McCarthy, Randy A chain complex for the spectrum homology of the algebraic K-theory of an exact category. (English summary) **98k:19004**
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55N22 Bordism and cobordism theories, formal group laws [see also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]

Bakuradze, Malkhaz The transfer and symplectic cobordism. (English summary) **98b:55004**
Devinatz, Ethan S. A counterexample to a BP-analogue of the chromatic splitting conjecture. (English summary) **98k:55004**
Lamrini, Fayçal Une application du calcul "umbral" non classique en topologie algébrique. (French summary) [An application of nonclassical umbral calculus in algebraic topology] **98b:55005**
Lazarev, A. Yu. Deformations of formal groups and stable homotopy theory. **98d:55007**
Yagita, Nobuaki Note on BP-theory for extensions of cyclic groups by elementary abelian p-groups. **98h:55008**
— Small subalgebras of Steenrod and Morava stabilizer algebras. (English summary) **98k:55005**
Yamaguchi, Atsushi On Harper's torsion molecule. **98c:55009**

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Bolsinov, A. V. (*with* Fomenko, A. T.; Zhang, Xing Ru) Three types of bordisms of integrable systems with two degrees of freedom. Computation of bordism groups. (Russian) **98d:58078**
Botvinnik, B. I. (*with* Gilkey, Peter B.; Stolz, Stephan) The Gromov-Lawson-Rosenberg conjecture for groups with periodic cohomology. **98i:58227**
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Hovey, Mark A. v_n-elements in ring spectra and applications to bordism theory. **98d:55017**
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Liu, Xi Bo *see* **Lü, Zhi; et al.**
Lü, Zhi (*with* Zhou, Chun Lian; Liu, Xi Bo) The group structure of the unoriented bordism class of the bundle space $\mathrm{RP}(\xi^{k+1})$. (Chinese. English and Chinese summaries)
May, J. Peter Equivariant and nonequivariant module spectra. (English summary) **98m:55012**
Minami, Norihiko On the Hurewicz image of the cokernel J spectrum. (English summary) **98j:55015**
Stolz, Stephan *see* **Botvinnik, B. I.; et al., 98i:58227**
Strickland, Neil P. Finite subgroups of formal groups. (English summary) **98k:14065**
— *see also* **Kashiwabara, Takuji; et al., 98c:55006**
Teichner, Peter On the star-construction for topological 4-manifolds. (English summary) **98i:57035**
Totaro, Burt Torsion algebraic cycles and complex cobordism. **98a:14012**
Turner, Paul R. *see* **Kashiwabara, Takuji; et al., 98c:55006**
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55N25 Homology with local coefficients, equivariant cohomology

Alaniya, L. A. On a cohomology with coefficients in a local system that is close to trivial. (Russian) **98g:55004**
Mukherjee, Amiya (*with* Mukherjee, Goutam) Bredon-Illman cohomology with local coefficients. **98m:55008**
— (*with* Naolekar, Aniruddha C.) Equivariant acyclic maps. (English summary) **98e:55007**
Mukherjee, Goutam *see* **Mukherjee, Amiya**, **98m:55008**
Naolekar, Aniruddha C. *see* **Mukherjee, Amiya**, **98e:55007**

Items with secondary classifications in 55N25

De Concini, Corrado (*with* Salvetti, Mario; Stumbo, Fabio) The top-cohomology of Artin groups with coefficients in rank-1 local systems over **Z**. (English summary) **98h:20063**
Gołasiński, Marek (*with* Gonçalves, Daciberg Lima) Equivariant weak n-equivalences. **98a:55011**
Gonçalves, Daciberg Lima *see* **Gołasiński, Marek**, **98a:55011**
Losik, Mark V. The cohomology of the complex of G-invariant forms on G-manifolds. II. (English summary) **98c:57041**
Salvetti, Mario *see* **De Concini, Corrado; et al.**, **98h:20063**
Stumbo, Fabio *see* **De Concini, Corrado; et al.**, **98h:20063**
Zulli, Louis Semibundle decompositions of 3-manifolds and the twisted cofundamental group. (English summary) **98m:57026**

55N30 Sheaf cohomology [see also 18F20, 32C35, 32L10]

Bredon, Glen E. ★ Sheaf theory. (English summary) **98g:55005**
Sklyarenko, E. G. Cohomology with carriers. (Russian) **98b:55006**

Items with secondary classifications in 55N30

Block, Jonathan (*with* Lazarev, A. Yu.) Homotopy theory and generalized duality for spectral sheaves. **98b:18020**
Carey, A. L. (*with* Murray, Michael K.; Wang, Bai-Ling) Higher bundle gerbes and cohomology classes in gauge theories. (English summary) **98e:58033**
Honkasalo, Hannu A sheaf-theoretic approach to the equivariant Serre spectral sequence. (English summary) **98c:55020**
Lazarev, A. Yu. *see* **Block, Jonathan**, **98b:18020**
Moerdijk, Ieke ★ Classifying spaces and classifying topoi. **98f:18006**
— (*with* Pronk, D. A.) Orbifolds, sheaves and groupoids. (English summary) **98l:22004**
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55N33 Intersection homology and cohomology

Brasselet, Jean-Paul Aspects combinatoires des singularités. [Combinatorial aspects of singularities] **98b:55007**
— (*with* Fieseler, Karl-Heinz; Kaup, Ludger) Caractérisation des variétés homologiques à l'aide des invariants d'homologie d'intersection. (French summary) [Characterization of homology manifolds using intersection homology invariants] **98d:55008**
Fieseler, Karl-Heinz *see* **Brasselet, Jean-Paul; et al.**, **98d:55008**
Kaup, Ludger *see* **Brasselet, Jean-Paul; et al.**, **98d:55008**

Items with secondary classifications in 55N33

Brasselet, Jean-Paul Intersection of algebraic cycles. **98a:14033**
Chan, Shing-Wai $\mathscr{L}$-classes on pseudomanifolds with one singular stratum. (English summary) **98d:58176**
Gajer, Paweł Intersection Lawson homology. (English summary) **98g:14011**

55N35 Other homology theories

Günther, Bernd (*with* Mdzinarishvili, L.) Continuous Alexander-Spanier cohomology classifies principal bundles with abelian structure group. (English summary) **98c:55010**
Mdzinarishvili, L. *see* **Günther, Bernd**, **98c:55010**
Saihi, Inès Théorie elliptique entière. (English and French summaries) [Integral elliptic theory] **98d:55009**
Sklyarenko, E. G. On the homology of engulfing. (Russian. Russian summary)

Items with secondary classifications in 55N35

Block, Jonathan (*with* Weinberger, Shmuel) Large scale homology theories and geometry. **98h:57001**
Gorinov, A. G. On the cohomology of double complexes. (Russian) **98k:18009**
Kuribayashi, Katsuhiko (*with* Yamaguchi, Toshihiro) The cohomology algebra of certain free loop spaces. (English summary) **98j:55007**
Léandre, Rémi Cohomologie de Bismut-Nualart-Pardoux et cohomologie de Hochschild entière. [Bismut-Nualart-Pardoux cohomology and entire Hochschild cohomology] **98i:58250**
Levine, Marc Lambda-operations, K-theory and motivic cohomology. (English summary) **98j:19004**
Nikolaishvili, V. On differential forms of infinite degrees. I. (English and Georgian summaries) **98e:58019**
Soma, Teruhiko The zero-norm subspace of bounded cohomology. (English summary) **98k:57040**
Weinberger, Shmuel *see* **Block, Jonathan**, **98h:57001**
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55N40 Axioms for homology theory and uniqueness theorems

Dragotti, S. (*with* Esposito, Rosa; Magro, G.; Parlato, L.) Geometric representations of the homology functor. (English summary)
Esposito, Rosa *see* **Dragotti, S.; et al.**
Magro, G. *see* **Dragotti, S.; et al.**
Parlato, L. *see* **Dragotti, S.; et al.**

Items with secondary classifications in 55N40

Barr, Michael Acyclic models. (English summary) **98b:18021**

55N45 Products and intersections

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Gorinov, A. G. On the cohomology of double complexes. (Russian) **98k:18009**
McCord, Christopher K. A Nielsen theory for intersection numbers. (English summary) **98b:55001**

55N91 Equivariant homology and cohomology [see also 19L47]

Honkasalo, Hannu (*with* Laitinen, Erkki) Equivariant Lefschetz classes in Alexander-Spanier cohomology. **98h:55009**
Laitinen, Erkki *see* **Honkasalo, Hannu**, **98h:55009**
Petrović, Zoran Z. On equivariant maps between Stiefel manifolds. (English summary) **98h:55010**

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Elmendorf, A. D. (*with* May, J. Peter) Algebras over equivariant sphere spectra. (English summary) **98b:55009**
Gołasiński, Marek (*with* Gonçalves, Daciberg Lima) Equivariant weak n-equivalences. **98a:55011**
— Componentwise injective models of functors to DGAs. **98b:55012**
Gonçalves, Daciberg Lima *see* **Gołasiński, Marek**, **98a:55011**
Honkasalo, Hannu A sheaf-theoretic approach to the equivariant Serre spectral sequence. (English summary) **98c:55020**
Jeffrey, Lisa C. (*with* Kirwan, Frances C.) Localization and the quantization conjecture. (English summary) **98e:58088**
Kirwan, Frances C. *see* **Jeffrey, Lisa C.**, **98e:58088**
Lima-Filho, P. On the equivariant homotopy of free abelian groups on G-spaces and G-spectra. **98i:55014**
May, J. Peter Equivariant and nonequivariant module spectra. (English summary) **98m:55012**
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Mukherjee, Amiya (*with* Mukherjee, Goutam) Bredon-Illman cohomology with local coefficients. **98m:55008**
— (*with* Naolekar, Aniruddha C.) Equivariant acyclic maps. (English summary) **98e:55007**
Mukherjee, Goutam *see* **Mukherjee, Amiya**, **98m:55008**
Naolekar, Aniruddha C. *see* **Mukherjee, Amiya**, **98e:55007**
Vergne, Michèle Multiplicities formula for geometric quantization. I, II. **98e:58087**
Živaljević, Rade T. User's guide to equivariant methods in combinatorics. **98c:55001**

55N99 None of the above, but in this section

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Dranishnikov, A. N. (*with* Ferry, Steven C.) On the Higson-Roe corona. (Russian) **98k:58214**
Ferry, Steven C. *see* **Dranishnikov, A. N.**, **98k:58214**

55Pxx Homotopy theory {For simple homotopy type, see 57Q10.}

55P05 Homotopy extension properties, cofibrations

Félix, Yves The fibre of an iterative adjunction of cells. (English summary) **98h:55011**
Huang, Jin Neng *see* **Shen, Wen Huai; et al.**
Mather, Michael Homotopy monomorphisms and homotopy pushouts. (English summary) **98g:55006**
Shen, Wen Huai (*with* Zuo, Zai Si; Huang, Jin Neng) A theorem characterizing fibrations that are also cofibrations. (Chinese)
Zuo, Zai Si *see* **Shen, Wen Huai; et al.**

55P10 Homotopy equivalences

Casacuberta, Carles (*with* Rodríguez, José L.) On weak homotopy equivalences between mapping spaces. (English summary) **98k:55006**
Félix, Yves (*with* Murillo-Mas, Aniceto) A bound for the nilpotency of a group of self homotopy equivalences. (English summary) **98d:55010**
McGibbon, C. A. (*with* Steiner, Richard) Phantom maps and the towers which determine them. **98g:55007**
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Rutter, John W. ★ Spaces of homotopy self-equivalences. **98f:55005**
Salvatore, Paolo Rational homotopy nilpotency of self-equivalences. (English summary) **98d:55011**
Steiner, Richard *see* **McGibbon, C. A.**, **98g:55007**

Items with secondary classifications in 55P10

Baues, Hans-Joachim (*with* Hartl, Manfred) On the homotopy category of Moore spaces and the cohomology of the category of abelian groups. (English summary) **98a:55009**
— (*with* Conduché, Daniel) On the 2-type of an iterated loop space. (English summary) **98k:55007**
— (*with* Hardie, K. A.; Kamps, K. H.) The self-equivalence groups in certain coherent homotopy categories. (English summary) **98g:55016**

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Fang, Fuquan Topology of complete intersections. (English summary) **98k:14071**
Félix, Yves (*with* Murillo-Mas, Aniceto) A note on the nilpotency of subgroups of self-homotopy equivalences. **98d:55019**
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Jarvis, Stuart (*with* Norbury, Paul) Compactification of hyperbolic monopoles. (English summary) **98k:58035**
Kamps, K. H. *see* **Baues, Hans-Joachim; et al., 98g:55016**
Murillo-Mas, Aniceto *see* **Félix, Yves, 98d:55019**
Nicolaescu, Liviu I. Generalized symplectic geometries and the index of families of elliptic problems. (English summary) **98a:58156**
Norbury, Paul *see* **Jarvis, Stuart, 98k:58035**
Tsukuda, Shuichi On maps from BS^1 to classifying spaces of certain gauge groups. **98f:55015**
Witbooi, P. J. Adjunction of mod P equivalences in homotopy theory. (English summary) **98d:55018**

55P15 Classification of homotopy type

Aguadé, J. (*with* Broto, C.; Notbohm, D.) A mod two analogue of a conjecture of Cooke. **98b:55008**
Baues, Hans-Joachim (*with* Hartl, Manfred) On the homotopy category of Moore spaces and the cohomology of the category of abelian groups. (English summary) **98a:55009**
Bokor, Imre On genus and cancellation of polyhedra with cells only in dimensions $2n+1$ and $4n+2$. (English summary) **98j:55006**
Broto, C. *see* **Aguadé, J.; et al., 98b:55008**
Chen, Ji Xiang Homotopically regular singlets. (Chinese)
Ehlers, P. J. (*with* Porter, Timothy) Varieties of simplicial groupoids. I. Crossed complexes. (English summary) **98d:55012**
Hartl, Manfred *see* **Baues, Hans-Joachim, 98a:55009**
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Items with secondary classifications in 55P15

Arkowitz, Martin (*with* Golasiński, Marek) Homotopy coalgebras and k-fold suspensions. (English summary) **98h:55013**
Bryan, Jim (*with* Sanders, Marc) The rank stable topology of instantons of $\overline{\mathbf{CP}}^2$. (English summary) **98b:58028**
Chachólski, Wojciech Desuspending and delooping cellular inequalities. **98i:55013**
Golasiński, Marek *see* **Arkowitz, Martin, 98h:55013**
Johnson, David Copeland (*with* Wilson, W. Stephen) On a theorem of Ossa. (English summary) **98b:55003**
Kadeishvili, T. V. ★ Структура $A(\infty)$-алгебры в когомологиях и рациональный гомотопический тип. (Russian. English and Russian summaries) [The $A(\infty)$-algebra structure in cohomology, and rational homotopy type] **98j:55013**
Kallel, Sadok (*with* Milgram, R. James) The geometry of the space of holomorphic maps from a Riemann surface to a complex projective space. **98m:58014**
Kołodziejczyk, Danuta There exists a polyhedron dominating infinitely many different homotopy types. (English summary) **98d:55016**
Lewis, Robert H. (*with* Moore, Guy D.) Computer search for nilpotent complexes. (English summary) **98m:55011**
Milgram, R. James *see* **Kallel, Sadok, 98m:58014**
Moore, Guy D. *see* **Lewis, Robert H., 98m:55011**
Nishimura, Yasuzo (*with* Yosimura, Zen-ichi) The quasi KO_*-types of weighted projective spaces. **98d:55006**
Powell, Geoffrey M. L. Elliptic spaces with the rational homotopy type of spheres. **98c:55016**
Sanders, Marc *see* **Bryan, Jim, 98b:58028**
Schaper, Ch. Suspensions of affine arrangements. **98i:52015**
Smith, Samuel Bruce Rational classification of simple function space components for flag manifolds. (English summary) **98e:55012**
Wilson, W. Stephen *see* **Johnson, David Copeland, 98b:55003**
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55P20 Eilenberg-Mac Lane spaces

Items with secondary classifications in 55P20

De Concini, Corrado (*with* Salvetti, Mario; Stumbo, Fabio) The top-cohomology of Artin groups with coefficients in rank-1 local systems over **Z**. (English summary) **98h:20063**
Franjou, Vincent (*with* Pirashvili, Teimuraz) On the Mac Lane cohomology for the ring of integers. **98h:19002**
Pirashvili, Teimuraz *see* **Franjou, Vincent, 98h:19002**
Randell, Richard Homotopy and group cohomology of arrangements. (English summary) **98f:52014**
Salvetti, Mario *see* **De Concini, Corrado; et al., 98h:20063**
Stumbo, Fabio *see* **De Concini, Corrado; et al., 98h:20063**

55P25 Spanier-Whitehead duality

Items with secondary classifications in 55P25

Bauer, Friedrich W. A strong shape theory with S-duality. (English summary) **98g:55012**
— A functional S-dual in a strong shape category. (English summary) **98k:55012**

55P35 Loop spaces

Baues, Hans-Joachim (*with* Conduché, Daniel) On the 2-type of an iterated loop space. (English summary) **98k:55007**
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— (*with* Hara, Shin-ichiro) The mod 3 homology of the space of loops on the exceptional Lie groups and the adjoint action. **98m:57047**
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55P45 H-spaces and duals

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— *see also* **Ding, Peng; et al., 98m:55010**

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55P65 Homotopy functors

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Weiss, Michael S. Erratum: "Orthogonal calculus" [Trans. Amer. Math. Soc. **347** (1995), no. 10, 3743–3796; MR 96m:55018]. **98f:55012**

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55P91 Equivariant homotopy theory [see also 19L47]

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55P99 None of the above, but in this section

Blanc, David Mapping spaces and M-CW complexes. (English summary) **98i:55015**
Chen, Ji Xiang On homotopy regular monomorphisms. (English summary)
Deloup, Florian The monodromy group of a configuration of lines. (English summary) **98f:55013**
Han, Sang-Eon On the direct limit of the locally nilpotent direct system. (English summary)
Hilton, Peter A new look at means on topological spaces. (English summary) **98k:55013**
Huang, Jin Neng (*with* Yi, Jian Xin; Liu, Yun) The homotopic property of near homeomorphisms. (Chinese. English and Chinese summaries)
Liu, Yun *see* **Huang, Jin Neng; et al.**
Lomonaco, Luciano A remark on the generalized Adem relations. (English summary)
Yi, Jian Xin *see* **Huang, Jin Neng; et al.**

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James, I. M. Fibrewise complexes. (English summary) **98b:55018**
Kheldouni, Abdelaziz (*with* Lamrini, Fayçal) Chern-Dold character in elliptic cohomology. **98b:57042**
Kieboom, R. W. Stable homotopy monomorphisms. (English summary) **98b:18001**
Ku, Chao A new proof of the Solomon-Tits theorem. (English summary) **98h:20023**
Lamrini, Fayçal *see* **Kheldouni, Abdelaziz, 98b:57042**
Lee, Kee Young (*with* Woo, Moo Ha) An extension of Gottlieb groups. (English summary) **98h:55015**
Richter, William A homotopy-theoretic proof of Williams's metastable Poincaré embedding theorem. **98e:57046**
Stasheff, Jim From operads to "physically" inspired theories. (English summary) **98b:55021**
Woo, Moo Ha *see* **Lee, Kee Young, 98h:55015**

55Qxx Homotopy groups

55Q05 Homotopy groups, general; sets of homotopy classes

Balci, Sabahattin *see* **Serbetci, Ayhan**
Baues, Hans-Joachim On the cohomology of categories, universal Toda brackets and homotopy pairs. (English summary) **98h:55020**
— (*with* Hardie, K. A.; Kamps, K. H.) The self-equivalence groups in certain coherent homotopy categories. (English summary) **98g:55016**
Carrasco, P. (*with* Cegarra, A. M.) Schreier theory for central extensions of categorical groups. **98a:55012**
Cegarra, A. M. *see* **Carrasco, P., 98a:55012**
Hardie, K. A. *see* **Baues, Hans-Joachim; et al., 98g:55016**
Kamps, K. H. *see* **Baues, Hans-Joachim; et al., 98g:55016**
Serbetci, Ayhan (*with* Balci, Sabahattin) On the solution of lifting problem on the sheaf of relative homotopy groups. (English summary)

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Bousfield, A. K. Unstable localization and periodicity. **98c:55014**
Bunge, Marta C. (*with* Moerdijk, Ieke) On the construction of the Grothendieck fundamental group of a topos by paths. (English summary) **98b:18007**
Casacuberta, Carles (*with* Rodríguez, José L.) On weak homotopy equivalences between mapping spaces. (English summary) **98k:55006**
Gilbert, N. D. Cockcroft complexes and the plus construction. (English summary) **98i:57004**
Illanes, Alejandro The fundamental group of Whitney blocks. (English summary) **98g:54014**
McGibbon, C. A. (*with* Steiner, Richard) Phantom maps and the towers which determine them. **98g:55007**
Moerdijk, Ieke *see* **Bunge, Marta C., 98b:18007**
Rodríguez, José L. *see* **Casacuberta, Carles, 98k:55006**
Steiner, Richard *see* **McGibbon, C. A., 98g:55007**
Zulli, Louis Semibundle decompositions of 3-manifolds and the twisted cofundamental group. (English summary) **98m:57026**

55Q07 Shape groups

Items with secondary classifications in 55Q07

Miyata, Takahisa (*with* Segal, Jack) Shape and uniform properties of hyperspaces of noncompact spaces. (English summary) **98e:54020**
Segal, Jack *see* **Miyata, Takahisa, 98e:54020**

55Q10 Stable homotopy groups

Arita, Yoshiko (*with* Shimomura, Katsumi) On products of some β-elements in the homotopy of the mod 3 Moore spectrum. (English summary) **98h:55021**
Minami, Norihiko On the Hurewicz image of the cokernel J spectrum. (English summary) **98j:55015**
Shimomura, Katsumi *see* **Arita, Yoshiko, 98h:55021**

Items with secondary classifications in 55Q10

Devinatz, Ethan S. A counterexample to a BP-analogue of the chromatic splitting conjecture. (English summary) **98k:55004**
Gorbunov, V. G. (*with* Siegel, Stephen F.; Symonds, Peter) The cohomology of the Morava stabilizer group S_2 at the prime 3. (English summary) **98g:55009**
Siegel, Stephen F. *see* **Gorbunov, V. G.; et al., 98g:55009**
Symonds, Peter *see* **Gorbunov, V. G.; et al., 98g:55009**

55Q15 Whitehead products and generalizations

Imaoka, Mitsunori (*with* Kawamoto, Yusuke) Symmetricity of the Whitehead element. (English summary) **98d:55020**
Kawamoto, Yusuke *see* **Imaoka, Mitsunori, 98d:55020**
Lin, Wen-Hsiung (*with* Wang, Nan-Jye) A proof of the non-projectivity of the Whitehead squares $[\iota_{2^r}, \iota_{2^r}] \in \pi_{2^{r+1}-1}(S^{2^r})$. **98b:55013**
Wang, Nan-Jye *see* **Lin, Wen-Hsiung, 98b:55013**

55Q20 Homotopy groups of wedges, joins, and simple spaces

Chachólski, Wojciech A generalization of the triad theorem of Blakers-Massey. **98e:55014**

Items with secondary classifications in 55Q20

Intermont, Michele An equivariant van Kampen spectral sequence. (English summary) **98e:55013**

55Q30 Homotopy groups of triads, n-ads

Items with secondary classifications in 55Q30

Witbooi, P. J. Adjunction of mod P equivalences in homotopy theory. (English summary) **98d:55018**

55Q35 Operations in homotopy groups

Items with secondary classifications in 55Q35

Blanc, David Loop spaces and homotopy operations. (English summary) **98h:55014**
Karoubi, Max Produit cyclique d'espaces et opérations de Steenrod. [Cyclic product of spaces and Steenrod operations] **98c:55018**

55Q40 Homotopy groups of spheres

Mukai, Juno Correction to: "On stable homotopy of complex projective space" [Japan. J. Math. (N.S.) **19** (1993), no. 1, 191–216; MR 95c:55014].

Items with secondary classifications in 55Q40

Greenlees, J. P. C. (*with* Sadofsky, Hal) Tate cohomology of theories with one-dimensional coefficient ring. (English summary) **98k:55003**
Peng, Jia Gui (*with* Tang, Zi Zhou) On representing homotopy classes of spheres by harmonic maps. **98a:58053**
Sadofsky, Hal *see* **Greenlees, J. P. C., 98k:55003**
Tang, Zi Zhou *see* **Peng, Jia Gui, 98a:58053**

55Q45 Stable homotopy of spheres

Lee, Chun-Nip Detection of some elements in the stable homotopy groups of spheres. **98d:55021**
Nguyễn Hữ'u Việt Hu'ng Spherical classes detected by the algebraic transfer.

Items with secondary classifications in 55Q45

Arlettaz, Dominique The exponent of the homotopy groups of Moore spectra and the stable Hurewicz homomorphism. (English summary) **98a:55007**
Hikida, Mizuho On May spectral sequences. **98h:55026**
Knapp, Karlheinz Im(J)-theory and the Kervaire invariant. **98k:19008**
Minami, Norihiko On the Hurewicz image of the cokernel J spectrum. (English summary) **98j:55015**
Smith, Larry e-invariants and finite covers. II. (English summary) **98i:57052**

55Q50 J-morphism [see also 19L20]

Kirdar, Mehmet KO-rings of $S^{2k+1}/\mathbf{Z}_{2^r}$. (English summary) **98m:55013**

55Q52 Homotopy groups of special spaces

Krasauskas, R. Crossed simplicial groups of framed braids and mapping class groups of surfaces. (English and Lithuanian summaries) **98d:55022**
Mukai, Juno Note on existence of the unstable Adams map. **98e:55015**

Items with secondary classifications in 55Q52

Arita, Yoshiko (*with* Shimomura, Katsumi) On products of some β-elements in the homotopy of the mod 3 Moore spectrum. (English summary) **98h:55021**
Brand, Neal (*with* Tejada, Débora María) Construction of universal branched coverings. (English summary) **98d:57008**
Brown, Edgar H., Jr. (*with* Szczarba, Robert H.) Some algebraic constructions in rational homotopy theory. (English summary) **98h:55017**
Eyral, Christophe Homotopie des pinceaux de sections hyperplanes. (English and French summaries) [Homotopy of a pencil of hyperplane sections] **98d:14026**
Habegger, N. (*with* Kaiser, Uwe) Link homotopy in the 2-metastable range. **98h:57050**
Kaiser, Uwe *see* **Habegger, N., 98h:57050**
Levi, Ran Torsion in loop space homology of rationally contractible spaces. (English summary) **98e:55018**
Shimomura, Katsumi *see* **Arita, Yoshiko, 98h:55021**
Szczarba, Robert H. *see* **Brown, Edgar H., Jr., 98h:55017**
Tejada, Débora María *see* **Brand, Neal, 98d:57008**
Venema, Gerard A. Local homotopy properties of topological embeddings in codimension two. (English summary) **98d:57036**
Yamaguchi, Atsushi On Harper's torsion molecule. **98c:55009**

55Q70 Homotopy groups of special types [see also 55N05, 55N07]

Items with secondary classifications in 55Q70

Blanc, David Mapping spaces and M-CW complexes. (English summary) **98i:55015**
Lewis, Robert H. (*with* Moore, Guy D.) Computer search for nilpotent complexes. (English summary) **98m:55011**
Moore, Guy D. *see* **Lewis, Robert H., 98m:55011**

55Q91 Equivariant homotopy groups [see also 19L47]

Items with secondary classifications in 55Q91

Golasiński, Marek (*with* Gonçalves, Daciberg Lima) Equivariant weak n-equivalences. **98a:55011**
Gonçalves, Daciberg Lima *see* **Golasiński, Marek, 98a:55011**
Intermont, Michele An equivariant van Kampen spectral sequence. (English summary) **98e:55013**
Ize, Jorge (*with* Vignoli, Alfonso) Equivariant degree for abelian actions. II. Index computations. **98k:58049**
Lima-Filho, P. On the equivariant homotopy of free abelian groups on G-spaces and G-spectra. **98i:55014**
Vignoli, Alfonso *see* **Ize, Jorge, 98k:58049**

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Items with secondary classifications in 55Q99

Lee, Kee Young (*with* Woo, Moo Ha) An extension of Gottlieb groups. (English summary) **98k:55015**
Woo, Moo Ha *see* **Lee, Kee Young, 98k:55015**

55Rxx Fiber spaces and bundles [see also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]

55R05 Fiber spaces

Pacati, Claudio (*with* Pavešić, Petar; Piccinini, Renzo) The Dold-Lashof-Fuchs construction revisited. (Italian summary) **98i:55016**
Pavešić, Petar *see* **Pacati, Claudio; et al., 98i:55016**
Piccinini, Renzo *see* **Pacati, Claudio; et al., 98i:55016**

Items with secondary classifications in 55R05

Félix, Yves The fibre of an iterative adjunction of cells. (English summary) **98h:55011**
Grandis, Marco Categorically algebraic foundations for homotopical algebra. (English summary) **98m:55017**

55R10 Fiber bundles

Barros, T. E. (*with* Mukai, Juno) A classification of some S^3-bundles. **98d:55023**
Dai, Xiong Ping Liftings of generalized Gottlieb sets. (Chinese. English and Chinese summaries) **98d:55024**
Mukai, Juno *see* **Barros, T. E., 98d:55023**

Items with secondary classifications in 55R10

Brand, Neal (*with* Tejada, Débora María) Construction of universal branched coverings. (English summary) **98d:57008**
Brzeziński, Tomasz Translation map in quantum principal bundles. (English summary) **98e:58021**
Chang, Shu-Chu The rank of the first homology group. (English summary) **98b:57004**
Ferdinands, R. J. D. (*with* Schultz, Reinhard) Algebraic fiberings of Grassmann varieties. **98j:14069**
Hillman, Jonathan A. On the homotopy types of closed 4-manifolds covered by $S^2 \times \mathbf{R}^2$. (English summary) **98a:57032**
Majid, Shahn Cross product quantisation, nonabelian cohomology and twisting of Hopf algebras. (English summary) **98h:16065**
Schultz, Reinhard *see* **Ferdinands, R. J. D., 98j:14069**
Tejada, Débora María *see* **Brand, Neal, 98d:57008**
Wu, Bao Ting The mechanism of highly solenoidal fiber bundles. (Chinese. English and Chinese summaries)
Zulli, Louis Semibundle decompositions of 3-manifolds and the twisted cofundamental group. (English summary) **98m:57026**

55R12 Transfer

Items with secondary classifications in 55R12

Nguyễn Hữu Việt Hưng Spherical classes detected by the algebraic transfer.

55R20 Spectral sequences and homology of fiber spaces [see also 55Txx]

Leary, Ian J. On the integral cohomology of wreath products. (English summary) **98m:55014**
— (*with* Schuster, Björn) On the $\mathrm{GL}(V)$-module structure of $K(n)^*(BV)$. (English summary) **98e:55016**
Schuster, Björn *see* **Leary, Ian J., 98e:55016**
Vidussi, Stefano Some remarks on the cohomology of SU(3) gauge orbit space. (English summary) **98b:55014**

Items with secondary classifications in 55R20

Kordzaya, K. D. (*with* Nishida, Goro) A duality theorem in Hopf algebras and its application to Morava K-theory of $B\mathbf{Z}/p'$. **98c:55007**
Kuribayashi, Katsuhiko (*with* Yamaguchi, Toshihiro) The cohomology algebra of certain free loop spaces. (English summary) **98j:55007**
Nishida, Goro *see* **Kordzaya, K. D., 98c:55007**
Yagita, Nobuaki Corrigenda: "Note on the spectral sequence converging to cohomology of an extra special p-group for odd prime p" [Math. Proc. Cambridge Philos. Soc. **119** (1996), no. 1, 35–41; MR 97c:55031]. **98e:55022**
Yamaguchi, Toshihiro *see* **Kuribayashi, Katsuhiko, 98j:55007**

55R25 Sphere bundles and vector space bundles

Doebner, H.-D. (*with* Mann, H.-J.) Vector bundles over configuration spaces of nonidentical particles: topological potentials and internal degrees of freedom. (English summary) **98f:55014**
Kibler, Maurice On quadratic and nonquadratic forms: application to $\mathbf{R}^{2m} \to \mathbf{R}^{2m-n}$ nonbijective transformations. **98i:55017**
Koschorke, Ulrich Nonstable and stable monomorphisms of vector bundles. (English summary) **98c:55017**
Mann, H.-J. *see* **Doebner, H.-D., 98f:55014**

Items with secondary classifications in 55R25

Čadek, Martin (*with* Vanžura, Jiří) On complex structures in 8-dimensional vector bundles. (English summary) **98m:57034**
Cobb, Robin J. (*with* Hillman, Jonathan A.) S^2-bundles over aspherical surfaces and 4-dimensional geometries. (English summary) **98d:57021**
Hillman, Jonathan A. *see* **Cobb, Robin J., 98d:57021**
Korbaš, Július (*with* Szűcs, András) The Lyusternik-Shnirel′man category, vector bundles, and immersions of manifolds. (English summary) **98m:55006**
Popescu, Paul Categories of modules with differentials. **98e:16007**
Rudyak, Yu. B. The spectra k and kO are not Thom spectra. (English summary) **98m:55007**
Singh, Neeta On mod p exotic characteristic classes for oriented spherical fibrations. **98d:55026**
Szűcs, András *see* **Korbaš, Július, 98m:55006**
Vanžura, Jiří *see* **Čadek, Martin, 98m:57034**

55R35 Classifying spaces of groups and H-spaces

Catalano, Michael Stable splittings of BP for some P of order thirty-two. (English summary) **98a:55013**
Dietz, Jill (*with* Ratliff, Tommy) Classifying spaces of central group extensions. (English summary) **98k:55014**
Dinh, Nguyen Gia On certain stable wedge summands of $B(\mathbf{Z}/p)^n_+$. (English summary) **98b:55015**
Lee, Chun-Nip A homotopy decomposition for the classifying space of virtually torsion-free groups and applications. **98h:55022**
— Stable splittings of classifying spaces of compact Lie group. **98k:55015**
Lee, Hyang-Sook (*with* Shin, Dong-Sun) Existence of subpolynomial algebras in $H^*(BG, \mathbf{Z}/p)$. **98d:55025**
— The stable and unstable types of classifying spaces. (English summary) **98e:55017**
Levi, Ran Torsion in loop space homology of rationally contractible spaces. (English summary) **98e:55018**
— On homological rate of growth and the homotopy type of $\Omega BG^\wedge_p$. **98k:55016**
Martino, John (*with* Priddy, Stewart) On the cohomology and homotopy of Swan groups. **98i:55018**
McGibbon, C. A. (*with* Møller, Jesper Michael) Connected covers and Neisendorfer's localization theorem. (English summary) **98g:55017**
Møller, Jesper Michael *see* **McGibbon, C. A., 98g:55017**
Osse, Akimou λ-structures and representation rings of compact connected Lie groups. (English summary) **98k:55017**
Priddy, Stewart Applications of stable classifying space theory to group cohomology. **98m:55015**
— *see also* **Martino, John, 98i:55018**
Ratliff, Tommy *see* **Dietz, Jill, 98k:55014**
Shin, Dong-Sun *see* **Lee, Hyang-Sook, 98d:55025**
Tsukuda, Shuichi On maps from BS^1 to classifying spaces of certain gauge groups. **98f:55015**
Vershinin, Vladimir V. On homological properties of singular braids. (English summary) **98j:55016**

Items with secondary classifications in 55R35

Đurđević, Mićo Quantum classifying spaces and universal quantum characteristic classes. (English summary) **98i:58024**
Gatsinzi, J.-B. The homotopy Lie algebra of classifying spaces. (English summary) **98g:55015**
Henn, Hans-Werner Commutative algebra of unstable K-modules, Lannes' T-functor and equivariant mod-p cohomology. (English summary) **98h:18014**
Hodgins, J. E. (*with* Plymen, Roger) Universal example for S-arithmetic groups. **98j:20064**
Hong, Sungbok The Kontsevich conjecture on mapping class groups. (English summary) **98a:57017**
Moerdijk, Ieke ★ Classifying spaces and classifying topoi. **98f:18006**
Møller, Jesper Michael (*with* Notbohm, D.) Connected finite loop spaces with maximal tori. (English summary) **98k:55008**
Notbohm, D. *see* **Møller, Jesper Michael, 98k:55008**
Pacati, Claudio (*with* Pavešić, Petar; Piccinini, Renzo) The Dold-Lashof-Fuchs construction revisited. (Italian summary) **98i:55016**
Pavešić, Petar *see* **Pacati, Claudio; et al., 98i:55016**
Piccinini, Renzo *see* **Pacati, Claudio; et al., 98i:55016**
Plymen, Roger *see* **Hodgins, J. E., 98j:20064**

55R40 Homology of classifying spaces, characteristic classes [see also 57Txx, 57R20]

Tanton, James Stuart A homological fibration for Gl_∞. (English summary) **98g:55018**
Tsukuda, Shuichi On the cohomology of the classifying space of a certain gauge group. (English summary) **98a:55014**
Wood, Jay A. The Chern character for classical matrix groups. (English summary) **98g:55019**

Items with secondary classifications in 55R40

Grieder, Ralph The infinite order of the symplectic classes in the cohomology of the stable mapping class group. (English summary) **98m:20067**
Jardine, J. F. Ultraproducts and the discrete cohomology of algebraic groups. (English summary) **98j:20062**
Kajimoto, Hiroshi The Poincaré duality and the Gysin homomorphism for flag manifolds. (English summary) **98i:57071**
Levi, Ran Torsion in loop space homology of rationally contractible spaces. (English summary) **98e:55018**
Minami, Haruo The complex K-groups of the projective orthogonal groups of degree $4l + 2$. **98k:57059**
Nguyễn Hữu Việt Hưng Spherical classes and the algebraic transfer. (English summary) **98e:55020**
Phạm Anh Minh On a conjecture of Kahn for the Stiefel-Whitney classes of the regular representation. **98f:20039**
Priddy, Stewart Applications of stable classifying space theory to group cohomology. **98m:55015**
Weiss, Michael S. Erratum: "Orthogonal calculus" [Trans. Amer. Math. Soc. **347** (1995), no. 10, 3743–3796; MR 96m:55018]. **98f:55012**

Yasui, Tsutomu On the Stiefel-Whitney classes of maps and Haefliger's obstructions to embeddings. (English summary) **98m:57036**

55R45 Homology and homotopy of BO and BU; Bott periodicity

Watanabe, Takashi The induced homomorphism of the Bott map on K-theory. **98b:55016**

55R50 Stable classes of vector space bundles, K-theory [see also 19Lxx] {For algebraic K-theory, see 18F25, 19-XX.}

Costinescu, Cristian-Nicolae Quelques résultats en K-théorie réelle. [Some results in real K-theory] **98b:55017**
Kobayashi, Teiichi (*with* Maki, Haruo) Note on relations between γ-classes and characteristic classes. **98a:55015**
Maki, Haruo *see* **Kobayashi, Teiichi, 98a:55015**

Items with secondary classifications in 55R50

Kirdar, Mehmet KO-rings of $S^{2k+1}/\mathbf{Z}_{2^r}$. (English summary) **98m:55013**
Koschorke, Ulrich Nonstable and stable monomorphisms of vector bundles. (English summary) **98c:55017**

55R55 Fiberings with singularities

Items with secondary classifications in 55R55

Tuschmann, Wilderich Collapsing, solvmanifolds and infrahomogeneous spaces. (English summary) **98j:53049**

55R65 Generalizations of fiber spaces and bundles

Murray, Michael K. Bundle gerbes. (English summary) **98a:55016**

Items with secondary classifications in 55R65

Hughes, C. Bruce Controlled topological equivalence of maps in the theory of stratified spaces and approximate fibrations. **98c:57019**
Kieboom, R. W. Stable homotopy monomorphisms. (English summary) **98b:18001**

55R99 None of the above, but in this section

James, I. M. Fibrewise complexes. (English summary) **98b:55018**

Items with secondary classifications in 55R99

Carey, A. L. (*with* Murray, Michael K.; Wang, Bai-Ling) Higher bundle gerbes and cohomology classes in gauge theories. (English summary) **98e:58033**
Deloup, Florian The monodromy group of a configuration of lines. (English summary) **98f:55013**
Il'yuta, G. G. Geometric realizations of higher Bruhat orders, and M-Morsifications. (Russian. Russian summary) **98f:58034**
Murray, Michael K. *see* **Carey, A. L.; et al., 98e:58033**
Wang, Bai-Ling *see* **Carey, A. L.; et al., 98e:58033**

55Sxx Operations and obstructions

55S05 Primary cohomology operations

Karoubi, Max Produit cyclique d'espaces et opérations de Steenrod. [Cyclic product of spaces and Steenrod operations] **98c:55018**
Silverman, Judith H. Stripping and conjugation in the Steenrod algebra. (English summary) **98e:55019**

Items with secondary classifications in 55S05

Hamanaka, Hiroaki (*with* Hara, Shin-ichiro; Kono, Akira[1]) Adjoint actions on the modulo 5 homology groups of E_8 and ΩE_8. **98e:57053**
Hara, Shin-ichiro *see* **Hamanaka, Hiroaki; et al., 98e:57053**
Kono, Akira[1] *see* **Hamanaka, Hiroaki; et al., 98e:57053**
Ndombol, Bitjong L'invariant Acat des algèbres quasi-commutatives. (French summary) [The invariant Acat of quasicommutative algebras] **98b:55020**
Singh, Neeta On mod p exotic characteristic classes for oriented spherical fibrations. **98d:55026**
Turner, James M. Operations and spectral sequences. I. (English summary) **98m:18005**

55S10 Steenrod algebra

Akita, Tomonori A_p-spaces and the reduced power operations. **98c:55019**
Crossley, M. D. H^*V is of bounded type over $\mathscr{A}(p)$. (English summary) **98k:55018**
Lannes, Jean Divers aspects des opérations de Steenrod. [Various aspects of the Steenrod operations] **98k:55019**
Lomonaco, Luciano Linear invariance and Adem relations. (Italian summary) **98i:55019**
— The diagonal cohomology of the universal Steenrod algebra. (English summary) **98f:55016**
Monks, Kenneth G. Change of basis, monomial relations, and P_i^s bases for the Steenrod algebra. (English summary) **98i:55020**
Nguyễn Hữu Việt Hưng Spherical classes and the algebraic transfer. (English summary) **98e:55020**
Powell, Geoffrey M. L. The structure of $\overline{I} \otimes \Lambda^*$ in generic representation theory. (English summary) **98g:55020**
Silverman, Judith H. Hit polynomials and conjugation in the dual Steenrod algebra. (English summary) **98k:55020**
Walker, Grant (*with* Wood, R. M. W.) The nilpotence height of P^{p^r}. (English summary) **98h:55023**
Wood, R. M. W. Differential operators and the Steenrod algebra. **98h:55024**
— *see also* **Walker, Grant, 98h:55023**

Items with secondary classifications in 55S10

Aguadé, J. (*with* Broto, C.; Notbohm, D.) A mod two analogue of a conjecture of Cooke. **98b:55008**
Bourguiba, Dorra (*with* Zarati, Said) Depth and the Steenrod algebra. **98k:13005**
Broto, C. *see* **Aguadé, J.; et al., 98b:55008**
Hamanaka, Hiroaki Homotopy-commutativity in rotation groups. **98g:55011**
Imaoka, Mitsunori (*with* Kawamoto, Yusuke) Symmetricity of the Whitehead element. (English summary) **98d:55020**
Kawamoto, Yusuke *see* **Imaoka, Mitsunori, 98d:55020**
(Lannes, Jean) *see* **Bourguiba, Dorra, 98k:13005**
Notbohm, D. *see* **Aguadé, J.; et al., 98b:55008**
Powell, Geoffrey M. L. The structure of indecomposable injectives in generic representation theory. (English summary) **98m:18004**
Silverman, Judith H. Stripping and conjugation in the Steenrod algebra. (English summary) **98e:55019**
Singh, Neeta On mod p exotic characteristic classes for oriented spherical fibrations. **98d:55026**
Yagita, Nobuaki Small subalgebras of Steenrod and Morava stabilizer algebras. (English summary) **98k:55005**
Zarati, Said *see* **Bourguiba, Dorra, 98k:13005**

55S12 Dyer-Lashof operations

Bisson, Terrence P. (*with* Joyal, André) Q-rings and the homology of the symmetric groups. (English summary) **98e:55021**
Joyal, André *see* **Bisson, Terrence P., 98e:55021**

Items with secondary classifications in 55S12

Eccles, Peter J. (*with* Turner, Paul R.; Wilson, W. Stephen) On the Hopf ring for the sphere. **98e:55024**
Nguyễn Hữu Việt Hưng Spherical classes detected by the algebraic transfer.
Singh, Neeta On mod p exotic characteristic classes for oriented spherical fibrations. **98d:55026**
Turner, Paul R. Dickson coinvariants and the homology of QS^0. **98e:55023**
— *see also* **Eccles, Peter J.; et al., 98e:55024**
Wilson, W. Stephen *see* **Eccles, Peter J.; et al., 98e:55024**

55S15 Symmetric products, cyclic products

Kallel, Sadok Divisor spaces on punctured Riemann surfaces. (English summary) **98h:55025**

Items with secondary classifications in 55S15

Eccles, Peter J. (*with* Turner, Paul R.; Wilson, W. Stephen) On the Hopf ring for the sphere. **98e:55024**
Guest, Martin A. (*with* Kozlowski, Andrzej[2]; Yamaguchi, Kohhei) Homological stability of oriented configuration spaces. **98h:55012**
Kozlowski, Andrzej[2] *see* **Guest, Martin A.; et al., 98h:55012**
Silberbush, Paul (*with* Ucci, Jack) On the suspension order of $(\mathbf{R}P^{2m})^{[k]}$. (English summary) **98g:55008**
Skopenkov, A. B. On the deleted product criterion for embeddability in $\mathbf{R}^m$. (English summary) **98j:57037**
Turner, Paul R. Dickson coinvariants and the homology of QS^0. **98e:55023**
— *see also* **Eccles, Peter J.; et al., 98e:55024**
Ucci, Jack *see* **Silberbush, Paul, 98g:55008**
Wilson, W. Stephen *see* **Eccles, Peter J.; et al., 98e:55024**
Yamaguchi, Kohhei *see* **Guest, Martin A.; et al., 98h:55012**

55S20 Secondary and higher cohomology operations

Singh, Neeta On mod p exotic characteristic classes for oriented spherical fibrations. **98d:55026**

Items with secondary classifications in 55S20

Baues, Hans-Joachim (*with* Tonks, Andy) On sum-normalised cohomology of categories, twisted homotopy pairs and universal Toda brackets. **98k:18010**
Kitada, Yasuhiko On the Kervaire classes of tangential normal maps of lens spaces. (English summary) **98i:57050**
Lin, Wen-Hsiung (*with* Wang, Nan-Jye) A proof of the non-projectivity of the Whitehead squares $[\iota_{2^r}, \iota_{2^r}] \in \pi_{2^{r+1}-1}(S^{2^r})$. **98b:55013**
Tonks, Andy *see* **Baues, Hans-Joachim, 98k:18010**
Wang, Nan-Jye *see* **Lin, Wen-Hsiung, 98b:55013**

55S25 K-theory operations and generalized cohomology operations [see also 19D55, 19Lxx]

Items with secondary classifications in 55S25

Bousfield, A. K. On λ-rings and the K-theory of infinite loop spaces. (English summary) **98a:55006**
Kobayashi, Teiichi (*with* Maki, Haruo) Note on relations between γ-classes and characteristic classes. **98a:55015**
Levine, Marc Lambda-operations, K-theory and motivic cohomology. (English summary) **98j:19004**
Maki, Haruo *see* **Kobayashi, Teiichi, 98a:55015**

55S30 Massey products

Items with secondary classifications in 55S30

Fukaya, Kenji Morse homotopy and its quantization. **98i:57061**
Kirk, Paul A. (*with* Klassen, Eric P.) The spectral flow of the odd signature operator and higher Massey products. **98b:58158**
Klassen, Eric P. *see* **Kirk, Paul A., 98b:58158**
Tralle, A. E. On compact symplectic and Kählerian solvmanifolds which are not completely solvable. (English summary) **98h:53051**
Viterbo, Claude Some remarks on Massey products, tied cohomology classes, and the Lusternik-Shnirelman category. **98a:58033**
Zheng, Qibing S-module and the new Massey-product. (English summary) **98b:16037**

55S35 Obstruction theory

Items with secondary classifications in 55S35

Koschorke, Ulrich Nonstable and stable monomorphisms of vector bundles. (English summary) **98c:55017**

55S37 Classification of mappings

Items with secondary classifications in 55S37

Blanc, David Mapping spaces and M-CW complexes. (English summary) **98i:55015**
Casacuberta, Carles (*with* Rodriguez, José L.) On weak homotopy equivalences between mapping spaces. (English summary) **98k:55006**
McGibbon, C. A. (*with* Møller, Jesper Michael) Connected covers and Neisendorfer's localization theorem. (English summary) **98g:55017**
Møller, Jesper Michael Extensions of p-compact groups. (English summary) **98c:55012**
— *see also* **McGibbon, C. A., 98g:55017**
Rodriguez, José L. *see* **Casacuberta, Carles, 98k:55006**

55S45 Postnikov systems, k-invariants

Items with secondary classifications in 55S45

Arlettaz, Dominique The exponent of the homotopy groups of Moore spectra and the stable Hurewicz homomorphism. (English summary) **98a:55007**
Baues, Hans-Joachim (*with* Conduché, Daniel) On the 2-type of an iterated loop space. (English summary) **98k:55007**
— The degree of maps between certain 6-manifolds. (English summary) **98k:57044**
Conduché, Daniel *see* **Baues, Hans-Joachim, 98k:55007**
Lin, James P. A_n-liftings into Postnikov towers. **98e:55008**
McGibbon, C. A. (*with* Steiner, Richard) Phantom maps and the towers which determine them. **98g:55007**
Steiner, Richard *see* **McGibbon, C. A., 98g:55007**
Thurber, Phillip B. Semi-localization of a one pointed Kan complex. (English summary) **98g:55013**
Weiss, Michael S. Erratum: "Orthogonal calculus" [Trans. Amer. Math. Soc. **347** (1995), no. 10, 3743–3796; MR 96m:55018]. **98f:55012**

55S99 None of the above, but in this section

Items with secondary classifications in 55S99

Fresse, Benoit Opérations de Cartan pour les algèbres simpliciales sur une opérade. (English and French summaries) [Cartan operations for simplicial algebras over an operad] **98c:18009**
Gusein-Zade, S. M. (*with* Natanzon, S. M.) The Arf-invariant and the Arnold invariants of plane curves. **98f:57011**
Natanzon, S. M. *see* **Gusein-Zade, S. M., 98f:57011**

55Txx Spectral sequences [see also 18G40, 55R20]

55T05 General

Items with secondary classifications in 55T05

Vassiliev, V. A. On spaces of polynomial knots. (Russian. Russian summary) **98d:57052**

55T10 Serre spectral sequences

Honkasalo, Hannu A sheaf-theoretic approach to the equivariant Serre spectral sequence. (English summary) **98c:55020**
Yagita, Nobuaki Corrigenda: "Note on the spectral sequence converging to cohomology of an extra special p-group for odd prime p" [Math. Proc. Cambridge Philos. Soc. **119** (1996), no. 1, 35–41; MR 97c:55031]. **98e:55022**

Items with secondary classifications in 55T10

Turner, James M. Operations and spectral sequences. I. (English summary) **98m:18005**
Vidussi, Stefano Some remarks on the cohomology of SU(3) gauge orbit space. (English summary) **98b:55014**
Yagita, Nobuaki Note on BP-theory for extensions of cyclic groups by elementary abelian p-groups. **98h:55008**

55T15 Adams spectral sequences

Hikida, Mizuho On May spectral sequences. **98h:55026**

Items with secondary classifications in 55T15

Devinatz, Ethan S. Morava modules and Brown-Comenetz duality. (English summary) **98i:55008**
Lin, Wen-Hsiung (*with* Wang, Nan-Jye) A proof of the non-projectivity of the Whitehead squares $[\iota_{2^r}, \iota_{2^r}] \in \pi_{2^{r+1}-1}(S^{2^r})$. **98b:55013**
Lomonaco, Luciano The diagonal cohomology of the universal Steenrod algebra. (English summary) **98f:55016**
Minami, Norihiko On the Hurewicz image of the cokernel J spectrum. (English summary) **98j:55015**
Morava, Jack Stable homotopy and local number theory. **98g:55010**
Nguyễn Hũ'u Việt Hu'ng Spherical classes detected by the algebraic transfer.
Wang, Nan-Jye *see* **Lin, Wen-Hsiung, 98b:55013**
Zheng, Qibing S-module and the new Massey-product. (English summary) **98b:16037**

55T20 Eilenberg-Moore spectral sequences [see also 57T35]

Items with secondary classifications in 55T20

Kuribayashi, Katsuhiko (*with* Yamaguchi, Toshihiro) The cohomology algebra of certain free loop spaces. (English summary) **98j:55007**
Yamaguchi, Toshihiro *see* **Kuribayashi, Katsuhiko, 98j:55007**

55T25 Generalized cohomology

Eccles, Peter J. (*with* Turner, Paul R.; Wilson, W. Stephen) On the Hopf ring for the sphere. **98e:55024**
Hakim-Hashemi, Mehdi (*with* Kahn, Donald W.) A generalization of the Atiyah-Hirzebruch spectral sequence. (English summary) **98b:55019**
Kahn, Donald W. *see* **Hakim-Hashemi, Mehdi, 98b:55019**
Turner, Paul R. Dickson coinvariants and the homology of QS^0. **98e:55023**
— *see also* **Eccles, Peter J.; et al., 98e:55024**
Wilson, W. Stephen *see* **Eccles, Peter J.; et al., 98e:55024**

Items with secondary classifications in 55T25

Lindenstrauss, Ayelet Topological Hochschild homology of extensions of $\mathbf{Z}/p\mathbf{Z}$ by polynomials, and of $\mathbf{Z}[x]/(x^n)$ and $\mathbf{Z}[x]/(x^n - 1)$. (English summary) **98e:19001**
Plümer, Judith Resultants and the algebraicity of the join pairing on Chow varieties. **98e:14005**

55T99 None of the above, but in this section

Items with secondary classifications in 55T99

Cordero, Luis A. (*with* Fernández, Marisa; Ugarte, Luis; Gray, Alfred) A general description of the terms in the Frölicher spectral sequence. (English summary) **98m:53092**
Fernández, Marisa *see* **Cordero, Luis A.; et al., 98m:53092**
Gray, Alfred *see* **Cordero, Luis A.; et al., 98m:53092**
Henn, Hans-Werner Centralizers of elementary abelian p-subgroups, the Borel construction of the singular locus and applications to the cohomology of discrete groups. **98g:57060**
Intermont, Michele An equivariant van Kampen spectral sequence. (English summary) **98e:55013**
Lindenstrauss, Ayelet The topological Hochschild homology of the Gaussian integers. (English summary) **98b:19002**
Smith, Samuel Bruce A based Federer spectral sequence and the rational homotopy of function spaces. (English summary) **98f:55011**
Takegoshi, Keusho A degeneration of Leray spectral sequence by proper Kähler morphisms. **98g:32057**
Tsalidis, Stavros On the topological cyclic homology of the integers. (English summary) **98b:19003**
Ugarte, Luis *see* **Cordero, Luis A.; et al., 98m:53092**

55Uxx Applied homological algebra and category theory [see also 18Gxx]

55U05 Abstract complexes

Items with secondary classifications in 55U05

Chachólski, Wojciech Desuspending and delooping cellular inequalities. **98i:55013**
Segev, Yoav On the order complex of a prelattice. **98b:06006**

55U10 Semisimplicial complexes

Items with secondary classifications in 55U10

Aschbacher, Michael Combinatorial cell complexes. **98a:05158**
Berger, Clemens Combinatorial models for real configuration spaces and E_n-operads. (English summary) **98j:18014**
Duque Hoyos, Álvaro *see* **Ruiz Salguero, Carlos J.; et al., 98g:54080**
Grandis, Marco Simplicial homotopical algebra and satellites. (English summary) **98f:18014**
Irmatov, A. A. Estimates for the number of threshold functions. (Russian. Russian summary) **98d:05014**
Luna Torres, Joaquín *see* **Ruiz Salguero, Carlos J.; et al., 98g:54080**
Pataraia, D. Internal categories in a left exact cosimplicial category. (English summary) **98h:18002**

Rakowski, Mark (*with* Sen, Siddhartha[1]) Homology in abelian lattice models. (English summary) **98k:18008**
Ruiz Salguero, Carlos J. (*with* Luna Torres, Joaquín; Duque Hoyos, Álvaro) A filtration of the space $\mathbf{J} = \mathbf{Q} \cap [0, 1]$. (English summary) **98g:54080**
Schenck, Henry K. (*with* Stillman, Mike) A family of ideals of minimal regularity and the Hilbert series of $C^r(\hat{\Delta})$. (English summary) **98i:13030**
— A spectral sequence for splines. (English summary) **98i:13031**
Sen, Siddhartha[1] *see* **Rakowski, Mark**, **98k:18008**
Stillman, Mike *see* **Schenck, Henry K.**, **98i:13030**
Thurber, Phillip B. Semi-localization of a one pointed Kan complex. (English summary) **98g:55013**

55U15 Chain complexes

Jardine, J. F. A closed model structure for differential graded algebras. (English summary) (*see* **98e:00017**)

Items with secondary classifications in 55U15

Barr, Michael Acyclic models. (English summary) **98b:18021**
Grandis, Marco Weak subobjects and weak limits in categories and homotopy categories. (French summary) **98j:18001**
Hovey, Mark A. (*with* Palmieri, John H.; Strickland, Neil P.) Axiomatic stable homotopy theory. (English summary) **98a:55017**
Johnson, Brenda (*with* McCarthy, Randy) Linearization, Dold-Puppe stabilization, and Mac Lane's Q-construction. (English summary) **98i:18007**
McCarthy, Randy *see* **Johnson, Brenda**, **98i:18007**
Palmieri, John H. *see* **Hovey, Mark A.; et al.**, **98a:55017**
Strickland, Neil P. *see* **Hovey, Mark A.; et al.**, **98a:55017**
Turner, James M. Operations and spectral sequences. I. (English summary) **98m:18005**
Zheng, Qibing Twisted product and cohomology. (English summary) **98d:57069**

55U30 Duality

Items with secondary classifications in 55U30

Devinatz, Ethan S. Morava modules and Brown-Comenetz duality. (English summary) **98i:55008**

55U35 Abstract homotopy theory

Arroyo, Fangjun H. Coherent homotopical algebras: "special Gamma-categories". (English summary) **98m:55016**
Dunn, Gerald E_n-ring categories. (English summary) **98e:55025**
Garzon, Antonio R. (*with* Miranda, Jesus G.) Homotopy theory for (braided) CAT-groups. (French summary) **98c:55021**
Grandis, Marco Categorically algebraic foundations for homotopical algebra. (English summary) **98m:55017**
Heller, Alex Stable homotopy theories and stabilization. (English summary) **98g:55021**
Hovey, Mark A. (*with* Palmieri, John H.; Strickland, Neil P.) Axiomatic stable homotopy theory. (English summary) **98a:55017**
Kamps, K. H. (*with* Porter, Timothy) ★ Abstract homotopy and simple homotopy theory. **98k:55021**
Miranda, Jesus G. *see* **Garzon, Antonio R.**, **98c:55021**
Ndombol, Bitjong L'invariant Acat des algèbres quasi-commutatives. (French summary) [The invariant Acat of quasicommutative algebras] **98b:55020**
Palmieri, John H. *see* **Hovey, Mark A.; et al.**, **98a:55017**
Porter, Timothy *see* **Kamps, K. H.**, **98k:55021**
Schwede, Stefan Spectra in model categories and applications to the algebraic cotangent complex. (English summary) **98h:55027**
Stasheff, Jim From operads to "physically" inspired theories. (English summary) **98b:55021**
Strickland, Neil P. *see* **Hovey, Mark A.; et al.**, **98a:55017**

Items with secondary classifications in 55U35

Batanin, Mikhail A. Categorical strong shape theory. (French summary) **98g:18009**
Baues, Hans-Joachim (*with* Tonks, Andy) On sum-normalised cohomology of categories, twisted homotopy pairs and universal Toda brackets. **98k:18010**
— On the cohomology of categories, universal Toda brackets and homotopy pairs. (English summary) **98h:55020**
Berger, Clemens Opérades cellulaires et espaces de lacets itérés. (English and French summaries) [Cellular operads and iterated loop spaces] **98c:55011**
Block, Jonathan (*with* Lazarev, A. Yu.) Homotopy theory and generalized duality for spectral sheaves. **98b:18020**
Chachólski, Wojciech A generalization of the triad theorem of Blakers-Massey. **98e:55014**
Ehlers, P. J. (*with* Porter, Timothy) Varieties of simplicial groupoids. I. Crossed complexes. (English summary) **98d:55012**
Elmendorf, A. D. (*with* May, J. Peter) Algebras over equivariant sphere spectra. (English summary) **98b:55009**
Golasiński, Marek (*with* Gonçalves, Daciberg Lima) Equivariant weak n-equivalences. **98a:55011**
Gonçalves, Daciberg Lima *see* **Golasiński, Marek**, **98a:55011**
Grandis, Marco Cubical homotopical algebra and cochain algebras. (English summary) **98d:18006**
— Simplicial homotopical algebra and satellites. (English summary) **98f:18014**
Heller, Alex Homological algebra and (semi)stable homotopy. (English summary) **98g:18013**
Janelidze, George (*with* Pedicchio, Maria Cristina) Internal categories and groupoids in congruence modular varieties. (English summary) **98f:08003**
Lazarev, A. Yu. *see* **Block, Jonathan**, **98b:18020**
May, J. Peter Stable algebraic topology and stable topological algebra. **98k:55009**
— *see also* **Elmendorf, A. D.**, **98b:55009**
Pedicchio, Maria Cristina *see* **Janelidze, George**, **98f:08003**
Porter, Timothy *see* **Ehlers, P. J.**, **98d:55012**
Stasheff, Jim The pre-history of operads. **98f:55009**
Tonks, Andy *see* **Baues, Hans-Joachim**, **98k:18010**

55U40 Topological categories

Items with secondary classifications in 55U40

Weiss, Michael S. Erratum: "Orthogonal calculus" [Trans. Amer. Math. Soc. **347** (1995), no. 10, 3743–3796; MR 96m:55018]. **98f:55012**

55U99 None of the above, but in this section

Items with secondary classifications in 55U99

Arvasi, Zekeriya Crossed squares and 2-crossed modules of commutative algebras. (English summary) **98i:18006**
Bak, Anthony Global actions: an algebraic double of a topological space. (Russian) **98k:18004**
Neeman, Amnon On a theorem of Brown and Adams. (English summary) **98e:18007**
Piriou, Laurent Sous-objets de $\overline{T} \otimes A^n$ dans la catégorie des foncteurs entre $\mathbf{F}_2$-espaces vectoriels. (English summary) [Subobjects of $\overline{T} \otimes A^n$ in the category of functors between $\mathbf{F}_2$-vector spaces] **98h:18012**

57–XX Manifolds and cell complexes {For complex manifolds, see 32C10.}

57–01 Instructional exposition (textbooks, tutorial papers, etc.)

Fomenko, A. T. (*with* Matveev, S. V.) ★ Algorithmic and computer methods for three-manifolds. (English summary) **98k:57001**
Geiges, Hansjörg Mannigfaltige Geometrien. [Manifold geometries] **98k:57002**
(Hazewinkel, Michiel) *see* **Fomenko, A. T., 98k:57001**
Matveev, S. V. *see* **Fomenko, A. T., 98k:57001**
(Tsaplina, M.) *see* **Fomenko, A. T., 98k:57001**

Items with secondary classifications in 57–01

Bliznyakov, N. M. *see* **Borisovich, Yu. G.; et al., 98f:55001**
Borisovich, Yu. G. (*with* Bliznyakov, N. M.; Izrailevich, Ya. A.; Fomenko, T. N.) ★ Введение в топологию. (Russian. English and Russian summaries) [Introduction to topology] **98f:55001**
Fomenko, T. N. *see* **Borisovich, Yu. G.; et al., 98f:55001**
Izrailevich, Ya. A. *see* **Borisovich, Yu. G.; et al., 98f:55001**
Selick, Paul ★ Introduction to homotopy theory. (English summary) **98h:55001**

57–02 Research exposition (monographs, survey articles)

Gabai, David Problems in foliations and laminations. (*see* **98f:57001**)
(Kazez, William H.) *see* **Geometric topology, 98f:57001**
(Kirby, Robion C.) *see* **Problems: Low-dimensional topology, (98f:57001)**

Items listed otherwise than by author

Athens, GA ★ Geometric topology. **98f:57001**
Conference:
  Topology ★ Geometric topology. **98f:57001**
Geometric topology ★ Geometric topology. **98f:57001**
Problems:
  Low-dimensional topology Problems in low-dimensional topology. (*see* **98f:57001**)

Items with secondary classifications in 57–02

Fomenko, A. T. (*with* Matveev, S. V.) ★ Algorithmic and computer methods for three-manifolds. (English summary) **98k:57001**
Geiges, Hansjörg Mannigfaltige Geometrien. [Manifold geometries] **98k:57002**
(Hazewinkel, Michiel) *see* **Fomenko, A. T., 98k:57001**
Matveev, S. V. *see* **Fomenko, A. T., 98k:57001**
(Tsaplina, M.) *see* **Fomenko, A. T., 98k:57001**

57–03 Historical (must also be assigned at least one classification number from Section 01)

Przytycki, Józef H. Two hundred years of knot theory. (Polish) **98g:57001**

Items with secondary classifications in 57–03

Bednarik, Robert G. *see* **Warner, Charles, (98e:01003)**
Budworth, Geoffrey Trambles. (*see* **98e:01003**)
Carter, Roger The history of macramé. (*see* **98e:01003**)
Chang, Europa A history of lace. (*see* **98e:01003**)
Chen, Lydia H. S. The art of Chinese knotwork: a short history. (*see* **98e:01003**)
Christensen, Antje The Peruvian quipu. (*see* **98e:01003**)
Geiges, Hansjörg Mannigfaltige Geometrien. [Manifold geometries] **98k:57002**
van de Griend, Pieter Inuit knots. (*see* **98e:01003**)
— Knots at sea. (*see* **98e:01003**)
— A history of topological knot theory. (*see* **98e:01003**)
— On the true love knot. (*see* **98e:01003**)
van der Kleij, Gerre On knots and swamps—knots in European prehistory. (*see* **98e:01003**)
Turner, John Christopher On theories of knots. (*see* **98e:01003**)
Wang, Yan Geng An outline of infinite-dimensional topology. (Chinese. English and Chinese summaries) **98i:57038**
Warner, Charles (*with* Bednarik, Robert G.) Pleistocene knotting. (*see* **98e:01003**)
— Why knot?—some speculations on the earliest knots. (*see* **98e:01003**)
— A history of life support knots. (*see* **98e:01003**)
— Heraldic knots. (*see* **98e:01003**)
Wendrich, Willemina Ancient Egyptian rope and knots. (*see* **98e:01003**)

57–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 57–04

Li, Bang-He (*with* Li, Qi Sheng[2]; Peterson, Chariya P.) Computer symbol calculation of invariants of three-manifolds obtained from trefoil knots. **98d:57016**
Li, Qi Sheng[2] *see* **Li, Bang-He; et al., 98d:57016**
Peterson, Chariya P. *see* **Li, Bang-He; et al., 98d:57016**

57–06 Proceedings, conferences, collections, etc.

(Akbulut, Selman) *see* **Proceedings: Geometry-Topology Conference, 98f:57002**
(Birman, Joan S.) *see* **Special Issue: Braid groups and related topics, 98b:57001**
(Boileau, Michel) *see* **Progress in knot theory and related topics, 98g:57002**
(Domergue, M.) *see* **Progress in knot theory and related topics, 98g:57002**
(Friedman, Robert David) *see* **Gauge theory and the topology of four-manifolds, 98j:57001**
(Kazez, William H.) *see* **Geometric topology, 98d:57001**
(Mathieu, Y.) *see* **Progress in knot theory and related topics, 98g:57002**
(Millett, Kenneth C.) *see* **Random knotting and linking, 98d:57003** *and* **Progress in knot theory and related topics, 98g:57002**
(Morgan, John W.) *see* **Gauge theory and the topology of four-manifolds, 98j:57001**
(Önder, Turgut) *see* **Proceedings: Geometry-Topology Conference, 98f:57002**
(Ranicki, Andrew) *see* **Surgery and geometric topology, 98a:57001**
(Stern, Ronald John) *see* **Proceedings: Geometry-Topology Conference, 98f:57002**
(Suh, Dong Youp) *see* **Transformation group theory, 98b:57002**
(Sumners, De Witt) *see* **Random knotting and linking, 98d:57003**
(Suzuki, Shin'ichi) *see* **Lectures at KNOTS '96, 98d:57002**
(Teicher, Mina) *see* **Special Issue: Braid groups and related topics, 98b:57001**
(Yamasaki, Masayuki) *see* **Surgery and geometric topology, 98a:57001**

Items listed otherwise than by author

Athens, GA ★ Geometric topology. **98d:57001**
Conference:
  Geometry-Topology ★ Proceedings of Gökova Geometry-Topology Conference 1995. **98f:57002**
  Knot Theory ★ Lectures at KNOTS '96. **98d:57002**
  Surgery and Geometric Topology ★ Surgery and geometric topology. **98a:57001**
  Topology ★ Geometric topology. **98d:57001**
  Transformation Group Theory ★ Transformation group theory. **98b:57002**
Gauge theory and the topology of four-manifolds ★ Gauge theory and the topology of four-manifolds. **98j:57001**
Geometric topology ★ Geometric topology. **98d:57001**
Gökova ★ Proceedings of Gökova Geometry-Topology Conference 1995. **98f:57002**
Jerusalem ★ Special issue on braid groups and related topics. **98b:57001**
Lectures at KNOTS '96 ★ Lectures at KNOTS '96. **98d:57002**
Park City, UT ★ Gauge theory and the topology of four-manifolds. **98j:57001**
Proceedings:
  Geometry-Topology Conference ★ Proceedings of Gökova Geometry-Topology Conference 1995. **98f:57002**
Progress in knot theory and related topics ★ Progress in knot theory and related topics. **98g:57002**
Random knotting and linking ★ Random knotting and linking. **98d:57003**
Sakado ★ Surgery and geometric topology. **98a:57001**
School:
  Gauge Theory and the Topology of Four-Manifolds ★ Gauge theory and the topology of four-manifolds. **98j:57001**
Session:
  Braid Groups and Related Topics ★ Special issue on braid groups and related topics. **98b:57001**
  Random Knotting and Linking ★ Random knotting and linking. **98d:57003**
Special Issue:
  Braid groups and related topics ★ Special issue on braid groups and related topics. **98b:57001**
Surgery and geometric topology ★ Surgery and geometric topology. **98a:57001**
Taejŏn ★ Transformation group theory. **98b:57002**
Tokyo ★ Lectures at KNOTS '96. **98d:57002**
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Vancouver, BC ★ Random knotting and linking. **98d:57003**

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(Adem, Alejandro) *see* **Group representations: cohomology, group actions and topology, 98h:20002**
(Apanasov, Boris N.) *see* **Geometry, topology and physics, 98k:00014**
Armstrong, M. A. *see* **Ranicki, Andrew; et al., 98c:57024**
(Bradlow, Steven B.) *see* **Geometry, topology and physics, 98k:00014**
(Carlson, Jon F.) *see* **Group representations: cohomology, group actions and topology, 98h:20002**
Casson, A. J. *see* **Ranicki, Andrew; et al., 98c:57024**
Cooke, G. E. *see* **Ranicki, Andrew; et al., 98c:57024**
(Grimaldi, Renata) *see* **Proceedings: Workshop on Differential Geometry and Topology, 98h:53003**
(Hurtubise, Jacques) *see* **Gauge theory and symplectic geometry, 98a:58001**
(Johnson, David Lawrence) *see* **Groups—Korea '94, 98e:20003**
(Kazez, William H.) *see* **Geometric topology, 98f:57001**
(Kim, Ann Chi) *see* **Groups—Korea '94, 98e:20003**
(Lalonde, François) *see* **Gauge theory and symplectic geometry, 98a:58001**
(Marchiafava, Stefano) *see* **Proceedings: Workshop on Differential Geometry and Topology, 98h:53003**
(Priddy, Stewart) *see* **Group representations: cohomology, group actions and topology, 98h:20002**
Ranicki, Andrew (*with* Casson, A. J.; Sullivan, D. P.; Armstrong, M. A.; Rourke, Colin; Cooke, G. E.) ★ The Hauptvermutung book. **98c:57024**
(Rodrigues, Waldyr Alves, Jr.) *see* **Geometry, topology and physics, 98k:00014**
Rourke, Colin *see* **Ranicki, Andrew; et al., 98c:57024**
(Sabidussi, Gert) *see* **Gauge theory and symplectic geometry, 98a:58001**
Sullivan, D. P. *see* **Ranicki, Andrew; et al., 98c:57024**
(Uhlenbeck, Karen K.) *see* **Geometry, topology and physics, 98k:00014**
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Athens, GA ★ Geometric topology. **98f:57001**
Campinas ★ Geometry, topology and physics. **98k:00014**
Conference:
  Theory of Groups ★ Groups—Korea '94. **98e:20003**
  Topology ★ Geometric topology. **98f:57001**
Donovaly ★ Graph theory. **98d:00010**
Gauge theory and symplectic geometry ★ Gauge theory and symplectic geometry. **98a:58001**

Geometric topology ★ Geometric topology. **98f:57001**
Geometry, topology and physics ★ Geometry, topology and physics. **98k:00014**
Graph theory ★ Graph theory. **98d:00010**
Group representations: cohomology, group actions and topology ★ Group representations: cohomology, group actions and topology. **98h:20002**
Groups—Korea '94 ★ Groups—Korea '94. **98e:20003**
Hauptvermutung book *see* **Ranicki, Andrew; et al., 98c:57024**
Montreal, PQ ★ Gauge theory and symplectic geometry. **98a:58001**
NATO Advanced Study Institute:
Gauge Theory and Symplectic Geometry ★ Gauge theory and symplectic geometry. **98a:58001**
Palermo ★ Proceedings of the Workshop on Differential Geometry and Topology. **98h:53003**
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Research Institute:
Cohomology, Representations, and Actions of Finite Groups ★ Group representations: cohomology, group actions and topology. **98h:20002**
Seattle, WA ★ Group representations: cohomology, group actions and topology. **98h:20002**
Seminar:
Gauge Theory and Symplectic Geometry ★ Gauge theory and symplectic geometry. **98a:58001**
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57Mxx Low-dimensional topology

Items with secondary classifications in 57Mxx

Geiges, Hansjörg Mannigfaltige Geometrien. [Manifold geometries] **98k:57002**

57M05 Fundamental group, presentations, free differential calculus

Benyash-Krivets, V. V. (*with* Chernousov, V. I.) On varieties of representations of the fundamental groups of compact nonorientable surfaces. (Russian) **98k:57003**
— (*with* Chernousov, V. I.) Varieties of representations of fundamental groups of compact nonoriented surfaces. (Russian. Russian summary) **98j:57002**
— *see also* **Rapinchuk, Andrei S.; et al., 98a:57002**
Chernousov, V. I. *see* **Rapinchuk, Andrei S.; et al., 98a:57002**; **Benyash-Krivets, V. V., 98j:57002** *and* **98k:57003**
Mamaghani, A. B. The derived group of a Seifert fibre group. (English summary) **98e:57001**
Rapinchuk, Andrei S. (*with* Benyash-Krivets, V. V.; Chernousov, V. I.) Representation varieties of the fundamental groups of compact orientable surfaces. (English summary) **98a:57002**
Teichner, Peter Maximal nilpotent quotients of 3-manifold groups. (English summary) **98i:57001**

Items with secondary classifications in 57M05

Babin, A. V. (*with* Bunimovich, Leonid A.) Stable chaotic waves generated by hyperbolic PDEs. (English summary) **98a:35088**
Bunimovich, Leonid A. *see* **Babin, A. V., 98a:35088**
Chang, Shu-Chu The rank of the first homology group. (English summary) **98b:57004**
Cochran, T. D. (*with* Orr, Kent E.) Stability of lower central series of compact 3-manifold groups. (English summary) **98j:57026**
Cohen, Daniel C. (*with* Suciu, Alexander I.) The braid monodromy of plane algebraic curves and hyperplane arrangements. (English summary) **98f:52012**
Deloup, Florian The monodromy group of a configuration of lines. (English summary) **98f:55013**
Dolgopolova, O. B. Construction of all two-sheeted unlimited unramified coverings of a closed Riemann surface. (Russian. English and Russian summaries) **98a:14039**
Fan, Kwai-Man Direct product of free groups as the fundamental group of the complement of a union of lines. **98j:14039**
Grasselli, Luigi (*with* Piccarreta, Salvina) Crystallizations of generalized Neuwirth manifolds. (English summary) **98k:57028**
Ha, Sang Jung (*with* Kim, Ann Chi) On a group presentation and 3-dimensional manifolds. **98b:57029**
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Kawabe, Tatsuya *see* **Ogose, Satoshi; et al., 98i:22017**
Kim, Ann Chi (*with* Kostrikin, Alekseĭ Ivanovich) Some balanced groups and 3-manifolds. (Russian. Russian summary) **98g:20049a**
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Klassen, Eric P. *see* **Heusener, Michael, 98b:57011**
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Kulikov, Vik. S. Finite presentability of the commutant of the fundamental group of the complement to a plane curve. (Russian. Russian summary) **98j:20045**
Lescop, Christine On the kernel of the Casson invariant. (English summary) **98k:57031**
Lins, Sóstenes (*with* Mulazzani, Michele) On the vertex group of n-manifolds. (English summary) **98c:05078**
Luo, Feng[1] On Heegaard diagrams. **98h:57030**
Matsumoto, Saburo A 3-manifold with a non-subgroup-separable fundamental group. (English summary) **98d:20031**
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Tang, Francis C. Y. Conjugacy separability of generalized free products of surface groups. (English summary) **98h:20037**
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57M07 Topological methods in group theory

Akita, Toshiyuki Cohomology and Euler characteristics of Coxeter groups. **98k:57004**
— Corrigendum: "Cohomology and Euler characteristics of Coxeter groups" [Sci. Bull. Josai Univ. **1997**, Special issue no. 2, 3–16; MR 98k:57004]. **Block, Jonathan** (*with* Weinberger, Shmuel) Large scale homology theories and geometry. **98h:57001**
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Hersonsky, Sa'ar (*with* Hubbard, John Hamal) Groups of automorphisms of trees and their limit sets. (English summary) **98k:57005**
Hubbard, John Hamal *see* **Hersonsky, Sa'ar, 98k:57005**
Juan-Pineda, Daniel Cohomological nonvanishing for modules over discrete groups. (English summary) **98d:57004**
Levitt, Gilbert (*with* Paulin, Frédéric) Geometric group actions on trees. (English summary) **98a:57003**
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Bridson, Martin R. (*with* Gilman, Robert H.) Formal language theory and the geometry of 3-manifolds. (English summary) **98a:57024**
Cannon, J. W. (*with* Floyd, William J.; Parry, Walter) Introductory notes on Richard Thompson's groups. **98g:20058**
Carter, J. Scott (*with* Saito, Masahico) On formulations and solutions of simplex equations. (English summary) **98g:17016**
Conner, Gregory R. A class of finitely generated groups with irrational translation numbers. (English summary) **98h:20055**
Dunwoody, M. J. Cyclic presentations and 3-manifolds. **98h:20067**
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— *see also* **Cannon, J. W.; et al., 98g:20058**
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Gitik, Rita (*with* Mitra, Mahan; Rips, Eliyahu; Sageev, Michah) Widths of subgroups. (English summary) **98e:20048**
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— (*with* Sapir, Mark V.) Diagram groups. (English summary) **98f:20013**
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Hillman, Jonathan A. On L^2-homology and asphericity. (English summary) **98f:57035**
Il'yuta, G. G. Geometric realizations of higher Bruhat orders, and M-Morsifications. (Russian. Russian summary) **98f:58034**
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Luo, Feng[1] On Heegaard diagrams. **98h:57030**
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Nagnibeda, Tatiana *see* **Grigorchuk, Rostislav, 98i:20038**
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— On the critical exponent of a discrete group of hyperbolic isometries. (English summary) **98k:53053**
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Sageev, Michah Codimension-1 subgroups and splittings of groups. (English summary) **98c:20071**
— *see also* **Gitik, Rita; et al., 98e:20048**
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57M10 Covering spaces

Chang, Shu-Chu The rank of the first homology group. (English summary) **98b:57004**
Looijenga, Eduard Prym representations of mapping class groups. (English summary) **98m:57002**
Malnič, Aleksander Group actions, coverings and lifts of automorphisms. (English summary) **98k:57006**
Neumann, Walter D. Commensurability and virtual fibration for graph manifolds. **98d:57007**
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Brown, Ronald (*with* Janelidze, George) Van Kampen theorems for categories of covering morphisms in lextensive categories. (English summary) **98c:18004**
Dolgopolova, O. B. Construction of all two-sheeted unlimited unramified coverings of a closed Riemann surface. (Russian. English and Russian summaries) **98a:14039**
Drunishnikov, A. N. Cohomology, dimension and large Riemannian manifolds. (English summary) **98i:54018**
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Hliněný, Petr $K_{4,4} - e$ has no finite planar cover. (English summary) **98i:05131**
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Rice, Michael D. Covering spaces, boundary sets, and interconnection networks. (English summary) **98g:68010**
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57M12 Special coverings, e.g. branched

Bauer, Ingrid (*with* Catanese, Fabrizio) Generic lemniscates of algebraic functions. **98f:57003**
Brand, Neal (*with* Tejada, Débora María) Construction of universal branched coverings. (English summary) **98d:57008**
Brunner, A. M. The double cover of S^3 branched along a link. (English summary) **98h:57004**
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Doebner, H.-D. (*with* Groth, W.) Quantum Borel kinematics on three-dimensional manifolds and knot groups. (English summary) **98m:57003**
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Lee, Ronnie (*with* Weintraub, Steven H.) Invariants of branched covering from the work of Serre and Mumford. (English summary) **98i:57002**
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Reni, Marco Dihedral branched coverings of hyperbolic orbifolds. (English summary) **98h:57006**
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Zvonkin, Alexander *see* **El Marraki, Mohamed; et al., 98j:57003**

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Casali, Maria Rita Geometric topology by crystallization theory: results and problems. (English summary) **98m:57029**
Delgado Friedrichs, Olaf (*with* Huson, Daniel H.) Orbifold triangulations and crystallographic groups. (English summary) **98k:52051**
Dolbilin, Nikolai P. (*with* Zinov′ev, Yu. M.; Mishchenko, A. S.; Shtan′ko, M. A.; Shtogrin, M. I.) Homological properties of two-dimensional coverings of lattices on surfaces. (Russian. Russian summary) **98b:82014**
Dolgopolova, O. B. Construction of all two-sheeted unlimited unramified coverings of a closed Riemann surface. (Russian. English and Russian summaries) **98a:14039**
El-Kholy, E. M. Convex isometric folding. (English summary) **98e:52001**
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Grasselli, Luigi Coloured knots and permutations representing 3-manifolds. (English summary) **98g:57010**
Hillman, Jonathan A. (*with* Sakuma, Makoto) On the homology of finite abelian coverings of links. (English summary) **98i:57010**
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Mulero Diaz, Ma. Ángeles Rings of continuous functions and the branch set of a covering. (English summary) **98h:54024**
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57M30 Wild knots and surfaces, etc., wild embeddings

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57M60 Group actions in low dimensions

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57Pxx Generalized manifolds [see also 18F15]

57P05 Local properties of generalized manifolds

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57P99 None of the above, but in this section

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Dranishnikov, A. N. *see* **Daverman, R. J.**, **98h:54045**
Esposito, Rosa (*with* Parlato, L.) The Hurewicz and Whitehead theorems for homotopy functors associated with manifold classes. (Italian. English summary)
Parlato, L. *see* **Esposito, Rosa**

57Qxx PL-topology

57Q05 General topology of complexes

Balke, Ludwig Deformations of simplicial structures. **98i:57041**
Casali, Maria Rita Geometric topology by crystallization theory: results and problems. (English summary) **98m:57029**
Edelsbrunner, Herbert (*with* Shah, Nimish R.) Triangulating topological spaces. (English summary) **98f:57038**
Rosicki, Witold On decomposition of polyhedra into a Cartesian product of 1-dimensional and 2-dimensional factors. **98c:57020**
Shah, Nimish R. *see* **Edelsbrunner, Herbert**, **98f:57038**
van de Vel, M. Collapsible polyhedra and median spaces. (English summary) **98k:57041**

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Červar, B. (*with* Uglešić, Nikica) Strictly canonical PL resolutions of spaces and mappings. (English summary) **98d:54027**
— (*with* Uglešić, Nikica) Paracompact locally compact spaces as inverse limits of polyhedra. (English summary) **98k:54013**
Narushima, Hiroshi A proof of Stanley's characterization for a simplicial complex to be an order complex. (English summary) **98d:06005**
Uglešić, Nikica *see* **Červar, B.**, **98d:54027** *and* **98k:54013**

57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [see also 19B28]

Hughes, C. Bruce (*with* Ranicki, Andrew) ★ Ends of complexes. (English summary) **98f:57039**
Kitano, Teruaki Reidemeister torsion of Seifert fibered spaces for SL(n; $\mathbf{C}$)-representations. (English summary) **98b:57036**
Porti, Joan Torsion de Reidemeister pour les variétés hyperboliques. (English and French summaries) [Reidemeister torsion for hyperbolic manifolds] **98g:57034**
Ranicki, Andrew *see* **Hughes, C. Bruce**, **98f:57039**

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Bartocci, C. (*with* Bruzzo, U.; Carfora, Mauro; Marzuoli, Annalisa) Entropy of random coverings and 4D quantum gravity. (English summary) **98b:83033**
Beyl, F. Rudolf (*with* Latiolais, M. Paul; Waller, Nancy) Classifications of 2-complexes whose finite fundamental group is that of a 3-manifold. (English summary) **98d:57009**
Bruzzo, U. *see* **Bartocci, C.; et al.**, **98b:83033**
Carfora, Mauro *see* **Bartocci, C.; et al.**, **98b:83033**
Cavicchioli, Alberto (*with* Hegenbarth, Friedrich) A note on four-manifolds with free fundamental groups. (English summary) **98e:57028**
Donald, John (*with* Gillman, David S.) Almost reconstruction of the 3-dimensional ball from $K_{pqrs} \times I$. (English summary) **98h:57008**
Elek, Gábor The determinant in the Laurent ring and the L^2-Reidemeister-Franz torsion. (English summary) **98k:58240**
Farber, Michael S. Combinatorial invariants computing the Ray-Singer analytic torsion. (English summary) **98c:58176**
Gillman, David S. *see* **Donald, John**, **98h:57008**
Hegenbarth, Friedrich *see* **Cavicchioli, Alberto**, **98e:57028**
Köhler, Kai Equivariant Reidemeister torsion on symmetric spaces. (English summary) **98b:58171**
Latiolais, M. Paul *see* **Beyl, F. Rudolf; et al.**, **98d:57009**
Lück, Wolfgang L^2-Invarianten von Mannigfaltigkeiten und Gruppen. [L^2-invariants of manifolds and groups] **98k:58217**
Marzuoli, Annalisa *see* **Bartocci, C.; et al.**, **98b:83033**
Rosenberg, Steven Nonlocal invariants in index theory. (English summary) **98d:58172**
Turaev, Vladimir G. Torsion invariants of Spin^c-structures on 3-manifolds. **98k:57038**
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57Q12 Wall finiteness obstruction for CW-complexes

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Eckmann, Beno Projective and Hilbert modules over group algebras, and finitely dominated spaces. **98h:57046a**
— Addendum to: "Projective and Hilbert modules over group algebras, and finitely dominated spaces". **98h:57046b**
Lück, Wolfgang (*with* Müller, Andreas) Existence of finitely dominated CW-complexes with $G_1(X) = \pi_1(X)$ and non-vanishing finiteness obstruction. (English summary) **98h:55016**
Müller, Andreas *see* **Lück, Wolfgang**, **98h:55016**

57Q15 Triangulating manifolds

Archdeacon, Dan (*with* Hartsfield, Nora; Little, C. H. C.) Non-Hamiltonian triangulations with large connectivity and representativity. (English summary) **98g:57035**
Brunet, Richard (*with* Nakamoto, Atsuhiro; Negami, Seiya) Diagonal flips of triangulations on closed surfaces preserving specified properties. (English summary) **98c:57021**
Datta, Basudeb Minimal triangulation, complementarity and projective planes. (English summary) **98j:57035**
Dey, Tamal Krishna Efficient algorithms to detect null-homologous cycles on 2-manifolds. (English summary) **98c:57022**
Hartsfield, Nora *see* **Archdeacon, Dan; et al.**, **98g:57035**
Little, C. H. C. *see* **Archdeacon, Dan; et al.**, **98g:57035**
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Nabutovsky, Alexander Geometry of the space of triangulations of a compact manifold. (English summary) **98g:57036**
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Negami, Seiya (*with* Midorikawa, Toshihide) Loosely-tightness of triangulations of closed surfaces. (English summary) **98d:57039**
— *see also* **Brunet, Richard; et al.**, **98c:57021**
Przytycka, Teresa M. (*with* Przytycki, Józef H.) A simple construction of high representativity triangulations. (English summary) **98h:57047**
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Sullivan, D. P. Triangulating and smoothing homotopy equivalences and homeomorphisms. Geometric Topology Seminar Notes. **98c:57027**
Tamura, Makoto The average edge order of triangulations of 3-manifolds with boundary. (English summary) **98h:57048**

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Bauer, Michel (*with* Itzykson, Claude) Triangulations. (French) **98m:14027**

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Chu, Chung-Kuang *see* **Jonckheere, Edmond A., 98i:65042**
Delgado Friedrichs, Olaf (*with* Huson, Daniel H.) Orbifold triangulations and crystallographic groups. (English summary) **98k:52051**
Edelsbrunner, Herbert (*with* Shah, Nimish R.) Triangulating topological spaces. (English summary) **98f:57038**
Grasselli, Luigi (*with* Piccarreta, Salvina) Crystallizations of generalized Neuwirth manifolds. (English summary) **98k:57028**
Huson, Daniel H. *see* **Delgado Friedrichs, Olaf, 98k:52051**
Itzykson, Claude *see* **Bauer, Michel, 98m:14027**
Jonckheere, Edmond A. (*with* Chu, Chung-Kuang) Bounded flatness in Q-triangulated regular N-simplexes. (English summary) **98i:65042**
Kühnel, Wolfgang ★ Tight polyhedral submanifolds and tight triangulations. **98b:52018**
— (*with* Lassmann, Gunter) Block designs $S_{2n-8}(2, 5, n)$ and triangulated Eulerian 4-manifolds. (English summary) **98k:52036**
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de Loera, Jesús A. (*with* Santos, Francisco; Urrutia, Jorge) The number of bistellar neighbors of a triangulation. (Spanish. Spanish summary) (*see* **98f:68272**)
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Petronio, Carlo Ideal triangulations of link complements and hyperbolicity equations. (English summary) **98k:57015**
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Quinn, Frank Problems in low-dimensional topology. **98e:57030**
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Shah, Nimish R. *see* **Edelsbrunner, Herbert, 98f:57038**
Urrutia, Jorge *see* **de Loera, Jesús A.; et al., (98f:68272)**
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57Q20 Cobordism

Casali, Maria Rita (*with* Gagliardi, Carlo) A combinatorial proof of Rohlin theorem. (English summary) **98m:57030**
Gagliardi, Carlo *see* **Casali, Maria Rita, 98m:57030**

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Magro, G. *see* **Dragotti, S.; et al.**
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Parlato, L. *see* **Dragotti, S.; et al,**

57Q25 Comparison of PL-structures: classification, Hauptvermutung

Armstrong, M. A. (*with* Rourke, Colin; Cooke, G. E.) The Princeton notes on the Hauptvermutung. **98c:57028**
— The Hauptvermutung according to Lashof and Rothenberg. **98c:57029**
— *see also* **Ranicki, Andrew; et al., 98c:57024**
Casali, Maria Rita An infinite class of bounded 4-manifolds having regular genus three. (Italian summary) **98f:57040**
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Cooke, G. E. The Hauptvermutung according to Casson and Sullivan. **98c:57031**
— *see also* **Ranicki, Andrew; et al., 98c:57024** *and* **Armstrong, M. A.; et al., 98c:57028**
Ranicki, Andrew (*with* Casson, A. J.; Sullivan, D. P.; Armstrong, M. A.; Rourke, Colin; Cooke, G. E.) ★ The Hauptvermutung book. **98c:57024**
— On the Hauptvermutung. **98c:57025**
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— Coda: connection with the results of Kirby and Siebenmann. **98c:57032**
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Piccarreta, Salvina *see* **Grasselli, Luigi, 98k:57028**
Sullivan, D. P. Triangulating and smoothing homotopy equivalences and homeomorphisms. Geometric Topology Seminar Notes. **98c:57027**

57Q30 Engulfing

Yagasaki, Tatsuhiko PL approximations of fiber preserving homeomorphisms of vector bundles. (English summary) **98i:57042**

57Q35 Embeddings and immersions

Banchoff, Thomas F. (*with* Johnson, Ockle) The normal Euler class and singularities of projections for polyhedral surfaces in 4-space. (English summary) **98j:57036**
Fang, Fuquan Embedding 3-manifolds and smooth structures of 4-manifolds. (English summary) **98b:57037**
Johnson, Ockle *see* **Banchoff, Thomas F., 98j:57036**
Skopenkov, A. B. On the deleted product criterion for embeddability in $\mathbf{R}^m$. (English summary) **98j:57037**

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Cervone, Davide P. Tightness for smooth and polyhedral immersions of the projective plane with one handle. (English summary) **98j:53071**
Kühnel, Wolfgang ★ Tight polyhedral submanifolds and tight triangulations. **98b:52018**
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Nagase, Teruo (*with* Shima, Akiko; Yamada, Tetsuo) A criterion beam system for extensions of a generic codimension 1 immersion from a closed manifold into $\mathbf{R}^n$. (English summary) **98g:57047**
Rolfsen, Dale (*with* Li, Zhong Mou) Which 3-manifolds embed in triod $\times$ I $\times$ I? (English summary) **98h:57043**
Shima, Akiko An unknotting theorem for tori in S^4. II. (English summary) **98i:57046**
— On simply knotted tori in S^4. (English summary) **98e:57031**
— *see also* **Nagase, Teruo; et al., 98g:57047**
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57Q37 Isotopy

Items with secondary classifications in 57Q37

Borobia, Alberto (*with* Mazurovskiĭ, Vladimir F.) Nonsingular configurations of 7 lines of $\mathbf{RP}^3$. (English summary) **98m:57028**
Mazurovskiĭ, Vladimir F. *see* **Borobia, Alberto, 98m:57028**
Upadhyay, Shashidhar Controlled algebraic K-theory of integral group ring of $SL(3, \mathbf{Z})$. (English summary) **98i:19003**

57Q40 Regular neighborhoods

Items with secondary classifications in 57Q40

Skopenkov, A. B. On the deleted product criterion for embeddability in $\mathbf{R}^m$. (English summary) **98j:57037**

57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

Auckly, David (*with* Sadun, Lorenzo) A family of Möbius invariant 2-knot energies. (English summary) **98i:57043**
Barros, Rui Marcos de Oliveira (*with* Neto, Oziride Manzoli) Alexander modules of orientable surfaces in S^4. (Portuguese. English and Portuguese summaries) **98d:57040**
Bellis, Paul Realizing homology boundary links with arbitrary patterns. (English summary) **98d:57041**
Blanloeil, Vincent (*with* Michel, Françoise) A theory of cobordism for non-spherical links. (English summary) **98h:57049**
Carter, J. Scott (*with* Saito, Masahico) Knot diagrams and braid theories in dimension 4. (English summary) **98g:57037**
— (*with* Rieger, Joachim H.; Saito, Masahico) A combinatorial description of knotted surfaces and their isotopies. (English summary) **98c:57023**
Fenn, Roger On the structure of certain links. **98i:57044**
Habegger, N. (*with* Kaiser, Uwe) Link homotopy in the 2-metastable range. **98h:57050**
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Kamada, Seiichi Crossing changes for singular 2-dimensional braids without branch points. **98h:57038**
Kanenobu, Taizo Weak unknotting number of a composite 2-knot. (English summary) **98f:57041**
Li, Gui-Song An invariant of link homotopy in dimension four. **98g:57038**
Marumoto, Yoshihiko Complementary space of knots and disks in dimension 4. **98m:57031**
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Ogasa, Eiji Some results on knots and links in all dimensions. **98b:57039**
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Shima, Akiko An unknotting theorem for tori in S^4. II. (English summary) **98i:57046**
Silver, Daniel S. Free group automorphisms and knotted tori in S^4. (English summary) **98d:57042**
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Yamada, Yuichi Decomposition of S^4 as a twisted double of a certain manifold. **98e:57034**
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Aravinda, C. S. (*with* Farrell, F. T.; Roushon, S. K.) Surgery groups of knot and link complements. **98e:57047**
Cotta-Ramusino, Paolo (*with* Martellini, Maurizio) Topological field theories and higher-dimensional knots. (English summary) **98g:58021**
Farrell, F. T. *see* **Aravinda, C. S.; et al., 98e:57047**
Hillman, Jonathan A. On L^2-homology and asphericity. (English summary) **98f:57035**
Kaiser, Uwe ★ Link theory in manifolds. **98j:57010**
Lucas, Laércio Aparecido (*with* Neto, Oziride Manzoli; Saeki, Osamu) A generalization of Alexander's torus theorem to higher dimensions and an unknotting theorem for $S^p \times S^q$ embedded in S^{p+q+2}. (English summary) **98e:57041**
Martellini, Maurizio *see* **Cotta-Ramusino, Paolo, 98g:58021**
Neto, Oziride Manzoli *see* **Lucas, Laércio Aparecido; et al., 98e:57041**

Ogasa, Eiji Some properties of ordinary sense slice 1-links: some answers to problem (26) of Fox. (English summary) **98j:57015**
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Saeki, Osamu *see* **Lucas, Laércio Aparecido; et al., 98e:57041**
Shima, Akiko On simply knotted tori in S^4. (English summary) **98e:57031**
Vassiliev, V. A. On spaces of polynomial knots. (Russian. Russian summary) **98d:57052**

57Q50 Microbundles and block bundles [see also 55R60, 57N55]

Casson, A. J. Generalisations and applications of block bundles. **98c:57026**

57Q55 Approximations

Items with secondary classifications in 57Q55

Dranishnikov, A. N. (*with* Repovš, Dušan D.) Cohomological dimension with respect to perfect groups. (English summary) **98e:55002**
Repovš, Dušan D. *see* **Dranishnikov, A. N., 98e:55002**

57Q60 Cobordism and concordance

Items with secondary classifications in 57Q60

Blanlœil, Vincent (*with* Michel, Françoise) A theory of cobordism for non-spherical links. (English summary) **98h:57049**
Kaiser, Uwe ★ Link theory in manifolds. **98j:57010**
Michel, Françoise *see* **Blanlœil, Vincent, 98h:57049**

57Q65 General position and transversality

Chernavskiĭ, A. V. (*with* Yablokova, S. I.) On the reduction of piecewise-linear mappings to general position in continuous dependence on the parameter. (Russian) **98a:57035**
Yablokova, S. I. The space of triangulations of a two-dimensional simplex. (Russian) **98c:57033**
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Dranishnikov, A. N. (*with* Repovš, Dušan D.) Cohomological dimension with respect to perfect groups. (English summary) **98e:55002**
Plavchak, Thomas A polyhedral transversality theorem for one-parameter fixed point theory. (English summary) **98h:55003**
Repovš, Dušan D. *see* **Dranishnikov, A. N., 98e:55002**

57Q99 None of the above, but in this section

Casali, Maria Rita Classifying PL 5-manifolds by regular genus: the boundary case. (English summary) **98f:57043**
Lickorish, W. B. Raymond Piecewise linear manifolds and Cerf theory. (English summary) **98m:57032**
Shashkin, Yu. A. Variants of the Tucker combinatorial lemma. (Russian. English and Russian summaries) **98i:57047**

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Akita, Toshiyuki Euler numbers of groups (the case of Coxeter groups). (Japanese) **98j:20054**
Ancel, Fredric D. (*with* Davis, Michael Walter; Guilbault, Craig R.) CAT(0) reflection manifolds. **98i:57068**
— (*with* Guilbault, Craig R.) Interiors of compact contractible n-manifolds are hyperbolic ($n \geq 5$). (English summary) **98i:53050**
Davis, Michael Walter *see* **Ancel, Fredric D.; et al., 98i:57068**
Dimovski, Dončo Combinatorial description of spin manifolds. (English summary) **98f:57047**
Dupont, Johan L. (*with* Just, Henrik) Simplicial currents. **98m:58003**
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Guo, Jing Mei Handlebody decomposition of Lipschitz manifolds. (Chinese. English and Chinese summaries) **98c:57037**
Heinonen, Juha (*with* Hinkkanen, A.) Quasiconformal maps between compact polyhedra are quasisymmetric. (English summary) **98c:30026**
Hinkkanen, A. *see* **Heinonen, Juha, 98c:30026**
Just, Henrik *see* **Dupont, Johan L., 98m:58003**
Kuperberg, W. Tiling the solid torus, the 3-cube and the 3-sphere with congruent knotted tori. (English summary) **98i:52031**
Rybnikov, K. A., Jr. *see* **Ryshkov, S. S., 98d:52031**
Ryshkov, S. S. (*with* Rybnikov, K. A., Jr.) The theory of quality translations with applications to tilings. (English summary) **98d:52031**

57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx.}

Milnor, John W. ★ Topology from the differentiable viewpoint. (English summary) **98h:57051**
(Weaver, David W.) *see* **Milnor, John W., 98h:57051**

57R10 Smoothing

Ruberman, Daniel (*with* Stern, Ronald John) A fake smooth $\mathbf{CP}^2\#\mathbf{RP}^4$. (English summary) **98d:57043**
Stern, Ronald John *see* **Ruberman, Daniel, 98d:57043**

Items with secondary classifications in 57R10

Sullivan, D. P. Triangulating and smoothing homotopy equivalences and homeomorphisms. Geometric Topology Seminar Notes. **98c:57027**

57R12 Smooth approximations

Items with secondary classifications in 57R12

Bakuradze, Malkhaz The transfer and symplectic cobordism. (English summary) **98b:55004**

57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)

Acosta, Daniel (*with* Lawson, Terry) Even non-spin manifolds, spin^c structures, and duality. (English summary) **98m:57033**
Audin, Michèle Structures Spin^c sur les variétés symplectiques. [Spin^c structures on symplectic manifolds] **98f:57044**
Brown, Edgar H., Jr. (*with* Li, Tian-Jun) KO-obstructions of non-abelian group action on spin manifolds. (English summary) **98k:57042**
Cho, Yong Seung Seiberg-Witten invariants on non-symplectic 4-manifolds. **98e:57035**
Colin, Vincent Chirurgies d'indice un et isotopies de sphères dans les variétés de contact tendues. (English and French summaries) [Surgeries of index one and isotopies of spheres in tight contact manifolds] **98e:57036**
Degtyarëv, Aleksandr Igorevich (*with* Finashin, S. M.) Pin-structures on surfaces and quadratic forms. (English and Turkish summaries) **98g:57039**
Finashin, S. M. *see* **Degtyarëv, Aleksandr Igorevich, 98g:57039**
Geiges, Hansjörg (*with* Gonzalo, Jesús) Contact circles on 3-manifolds. (English summary) **98k:57043**
— Applications of contact surgery. **98d:57044**
Gompf, Robert E. Spin^c-structures and homotopy equivalences. (English summary) **98i:57048**
Gonzalo, Jesús *see* **Geiges, Hansjörg, 98k:57043**
Lalonde, François (*with* McDuff, Dusa) J-curves and the classification of rational and ruled symplectic 4-manifolds. (English summary) **98d:57045**
— (*with* McDuff, Dusa) The classification of ruled symplectic 4-manifolds. (English summary) **98b:57040**
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McDuff, Dusa (*with* Symington, Margaret) Associativity properties of the symplectic sum. (English summary) **98a:57036**
— *see also* **Lalonde, François, 98b:57040** *and* **98d:57045**
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Tang, Zi Zhou Nonexistence of almost complex structures on Dold manifolds. (English summary) **98e:57037**

Items with secondary classifications in 57R15

Aguilar, Marcelo Alberto (*with* Socolovsky, M.) Clifford algebras and spin bundles. (English summary) **98h:53025**
Bennequin, Daniel Monopôles de Seiberg-Witten et conjecture de Thom (d'après Kronheimer, Mrowka et Witten). (French summary) [Seiberg-Witten monopoles and the Thom conjecture (following Kronheimer, Mrowka and Witten)] **98i:57059**
Bilge, Ayşe Hümeyra (*with* Dereli, Tekin; Koçak, Şahin) Seiberg-Witten equations on $\mathbf{R}^8$. **98d:57054**
Biran, P. Symplectic packing in dimension 4. (English summary) **98i:57057**
Čadek, Martin (*with* Vanžura, Jiří) On Sp(2) and Sp(2) · Sp(1)-structures in 8-dimensional vector bundles. (English summary) **98i:57053**
Cho, Yong Seung Smooth structures on symplectic 4-manifolds with finite fundamental groups. **98h:57054**
Connolly, Frank (*with* Lê Hông Vân; Ono, Kaoru) Almost complex structures which are compatible with Kähler or symplectic structures. (English summary) **98i:53038**
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— Correction to: "Fox calculus, symplectic forms, and moduli spaces" [Trans. Amer. Math. Soc. **350** (1998), no. 4, 1429–1466; MR 98i:58057].

57R19 Algebraic topology on manifolds

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57R20 Characteristic classes and numbers

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— (*with* Saeki, Osamu) On the self-intersection set and the image of a generic map. (English summary) **98f:57052**
Bloch, Spencer J. (*with* Esnault, Hélène) Algebraic Chern-Simons theory. (English summary) **98i:32050**
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— On the topological structure of complex hypersurfaces with quadratic singularities. (Russian. Russian summary) **98e:32065**
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Ramani, Vimala (*with* Sankaran, Parameswaran) On degrees of maps between Grassmannians. (English summary) **98d:55002**
Reznikov, A. G. Rationality of secondary classes. (English summary) **98b:14006**
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Seade, José (*with* Verjovsky, Alberto) Invariance topologique de la classe d'Euler pour des feuilletages singuliers. (English and French summaries) [Topological invariance of the Euler class for singular foliations] **98g:57045**

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Weiss, Michael S. Erratum: "Orthogonal calculus" [Trans. Amer. Math. Soc. **347** (1995), no. 10, 3743–3796; MR 96m:55018]. **98f:55012**
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57R22 Topology of vector bundles and fiber bundles [see also 55Rxx]

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Gross, Christian Cohomology and connection on S^1-bundles. **98k:53102**
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57R25 Vector fields, frame fields

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Golubev, Alexander On the global stability of maximally nonholonomic two-plane fields in four dimensions. **98g:57043**
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— (*with* Vanžura, Jiří) On complex structures in 8-dimensional vector bundles. (English summary) **98m:57034**
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Korbaš, Július (*with* Szűcs, András) The Lyusternik-Shnirel′man category, vector bundles, and immersions of manifolds. (English summary) **98m:55006**
Krasauskas, R. Crossed simplicial groups of framed braids and mapping class groups of surfaces. (English and Lithuanian summaries) **98d:55022**
Madsen, Ib (*with* Tornehave, Jørgen) ★ From calculus to cohomology. (English summary) **98g:57040**
Montgomery, Richard *see* **Kazaryan, M. È.; et al., 98d:57046**
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57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [see also 49Qxx, 58F40, 93B05]

Narmanov, A. Ya. On the transversal structure of the controllability sets of symmetric control systems. (Russian. Russian summary) **98b:57044**

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Yalçin Kaya, C. (*with* Noakes, J. Lyle) Closed trajectories and global controllability in the plane. (English summary) **98m:93023**

57R30 Foliations; geometric theory

Alcalde Cuesta, F. (*with* Hector, Gilbert) Feuilletages en surfaces, cycles évanouissants et variétés de Poisson. (English summary) [Surface foliations, vanishing cycles and Poisson manifolds] **98i:57054**
Brittenham, Mark (*with* Naimi, Ramin; Roberts, Rachel) Graph manifolds and taut foliations. (English summary) **98j:57040**
Bronshtein, I. U. (*with* Nikolaev, I. V.) Peixoto graphs of Morse-Smale foliations on surfaces. (English summary) **98e:57039**
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Firmo, S. (*with* Sarmiento, A.) Codimension one foliations without unstable compact leaves. (English summary) **98m:57035**
Ghys, Étienne Sur l'uniformisation des laminations paraboliques. [On the uniformization of parabolic laminations] **98e:57040**
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Kazaryan, M. È. Relative Morse theory of one-dimensional foliations, and cyclic homology. (Russian. Russian summary) **98j:57042**
Kocayusufoğlu, İsmail About Reeb foliation. (English summary)
Mamaev, V. K. Codimension-one foliations on flat 3-manifolds. (Russian. Russian summary) **98d:57048**
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Seade, José (*with* Verjovsky, Alberto) Invariance topologique de la classe d'Euler pour des feuilletages singuliers. (English and French summaries) [Topological invariance of the Euler class for singular foliations] **98g:57045**
Shields, Sandra L. Branched surfaces and the stability of compact leaves. (English summary) **98f:57051**
— An equivalence relation for codimension one foliations of 3-manifolds. (English summary) **98d:57050**
— Stability for a class of foliations covered by a product. **98j:57043**
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Cavalier, Vincent (*with* Haefliger, André) Réalisations feuilletées de quelques pseudogroupes. (French summary) [Foliated realizations of some pseudogroups] **98g:58190**
Charitos, Charalambos (*with* Tsapogas, Georgios) Geodesic flow on ideal polyhedra. (English summary) **98e:58133**
Cooper, Daryl (*with* Long, Darren D.) Foliations of some 3-manifolds which fiber over the circle. (English summary) **98e:57021**
Elek, Gábor Betti numbers and Euler's formula for combinatorial foliations. **98d:58177**
Eliashberg, Yakov M. (*with* Thurston, William P.) ★ Confoliations. (English summary) **98m:53042**
— *see also* **Thomas, C. B.; et al., 98b:53026**
Fenley, Sérgio R. Incompressible tori transverse to Anosov flows in 3-manifolds. (English summary) **98c:58122**
— Homotopic indivisibility of closed orbits of 3-dimensional Anosov flows. **98f:58152**
— Local and global properties of limit sets of foliations of quasigeodesic Anosov flows. (English summary) **98m:58107**
Flondor, Paul (*with* Pascu, Eugen) Foliations of mixed manifolds. (English and Romanian summaries) **98b:32006**
Gabai, David (*with* Kazez, William H.) Homotopy, isotopy and genuine laminations of 3-manifolds. **98k:57026**
— (*with* Kazez, William H.) Order trees and laminations of the plane. **98k:57024**
Gambaudo, Jean-Marc (*with* Ghys, Étienne) Enlacements asymptotiques. [Asymptotic links] **98f:57050**
Ghys, Étienne Feuilletages holomorphes de codimension un sur les espaces homogènes complexes. (English and French summaries) [Codimension-one holomorphic foliations on complex homogeneous spaces] **98d:32037**
— *see also* **Gambaudo, Jean-Marc, 98f:57050**
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Horwitz, Alan Stuart Growth of leaves in foliations with Ehresmann connections. (English summary) **98i:53036**
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Kobayashi, Tsuyoshi Example of hyperbolic knot which do not admit depth 1 foliation. **98h:57019**
Kock, Anders (*with* Moerdijk, Ieke) Spaces with local equivalence relations, and their monodromy. (English summary) **98c:18003**
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Lozano, María Teresa (*with* Montesinos-Amilibia, José María) Geodesic flows on hyperbolic orbifolds, and universal orbifolds. (English summary) **98c:58125**
Luo, Feng[1] (*with* Stong, Richard) Conformal embedding of a disc with a Lorentz metric into the plane. **98k:53086**
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57R55 Differentiable structures

Bižaca, Žarko (*with* Etnyre, John) Smooth structures on collarable ends of 4-manifolds. (English summary) **98j:57046**
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Flaschka, Hermann (*with* Ratiu, Tudor S.) A Morse-theoretic proof of Poisson Lie convexity. **98d:58058**
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— Equivariant exponentially Nash vector bundles. (English summary) **98f:14045**
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Pintea, Cornel Continuous mappings with an infinite number of topologically critical points. (English summary) **98d:57059**
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Rodionov, E. D. The structure of standard homogeneous Einstein manifolds with a simple isotropy group. II. (Russian. Russian summary) **98e:53078**
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Yan, Min Equivariant periodicity in surgery for actions of some nonabelian groups. (English summary) **98f:57057**

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Bogataya, S. I. (*with* Bogatyĭ, Semen A.) A remark on a theorem of Steinlein. (Russian. Russian summary) **98e:57049**
Bogatyĭ, Semen A. *see* **Bogataya, S. I., 98e:57049**
Chen, Xigeng (*with* Peng, Jinxiang) Smooth involutions on the $2k$-dimensional quaternionic projective space $\mathbf{HP}(2k)$. (English summary) **98g:57057**
Dovermann, Karl Heinz (*with* Herzog, Marcel) Gap conditions for representations of symmetric groups. (English summary) **98g:57058**
Edmonds, Allan L. Automorphisms of the E_8 four-manifold. **98i:57066**
Hara, Tamio (*with* Koshikawa, Hiroaki) Cutting and pasting of G manifolds with boundary. **98a:57044**
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— Homotopical triviality of entire rational maps to even-dimensional spheres. (English summary) **98c:57038**
— *see also* **Park, Dae Heui, 98m:57044**
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Cho, Jin-Hwan (*with* Suh, Dong Youp) Algebraic realization problems for low-dimensional G manifolds. (English summary) **98i:57065**
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Ghys, Étienne *see* **Cairns, Grant, 98i:57067**
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Deitmar, Anton Torus actions on compact quotients. (English summary) **98m:22015**
Goetze, Edward R. (*with* Spatzier, Ralf J.) On Livšic's theorem, superrigidity, and Anosov actions of semisimple Lie groups. **98d:58134**
Gorbatsevich, V. V. The Seifert fibration for a plesiocompact homogeneous space. (Russian. Russian summary) **98a:57047**
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Totaro, Burt A sketch of Lie's work on differential invariant theory. **98f:01037**
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— The identity component of the isometry group of a compact Lorentz manifold. **98m:53091**

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Bai, Ruipu *see* **Wu, Zhende; et al., 98f:57060**
Bourdon, Marc Sur la dimension de Hausdorff de l'ensemble limite d'une famille de sous-groupes convexes co-compacts. (English and French summaries) [On the Hausdorff dimension of the limit set of a family of convex cocompact subgroups] **98m:57046**
Farrell, F. T. (*with* Jones, Lowell Edwin) Compact infrasolvmanifolds are smoothly rigid. **98h:57065**
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Lee, Jong Bum Nilpotent action and Euler characteristic. **98h:57066**
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Weinberger, Shmuel $\mathrm{SL}(n, \mathbf{Z})$ cannot act on small tori. **98e:57050**
Wu, Zhende (*with* Liu, Zongze; Bai, Ruipu) The cobordism classification of involution on DOLD manifold $P(1, 2l)$. (English summary) **98f:57060**

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Belliart, Michel Actions sans points fixes sur les surfaces compactes. [Fixed-point-free actions on compact surfaces] **98k:57055**
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Bogatyĭ, Semen A. *see* **Bogataya, S. I., 98e:57049**
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Chen, Xigeng (*with* Peng, Jinxiang) Smooth involutions on the $2k$-dimensional quaternionic projective space $\mathbf{HP}(2k)$. (English summary) **98g:57057**
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Kwasik, Sławomir (*with* Schultz, Reinhard) Isolated fixed points of circle actions on 4-manifolds. (English summary) **98i:57027**
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Lu, Jiang-Hua Poisson homogeneous spaces and Lie algebroids associated to Poisson actions. **98d:58204**
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Pawałowski, Krzysztof Chern and Pontryagin numbers in perfect symmetries of spheres. (English summary) **98m:57045**
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Swann, Andrew *see* **Dancer, Andrew S., 98a:53066** *and* **98m:53062**
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Uchida, Fuichi On smooth $\mathrm{SO}_0(p, q)$-actions on S^{p+q-1}. II. (English summary) **98h:57064**
Vergne, Michèle Multiplicities formula for geometric quantization. I, II. **98e:58087**
Weintraub, Steven H. *see* **Lee, Ronnie, 98i:57002**
Yagita, Nobuaki Corrigenda: "Note on the spectral sequence converging to cohomology of an extra special p-group for odd prime p" [Math. Proc. Cambridge Philos. Soc. **119** (1996), no. 1, 35–41; MR 97c:55031]. **98e:55022**

57S30 Discontinuous groups of transformations

Ancel, Fredric D. (*with* Davis, Michael Walter; Guilbault, Craig R.) CAT(0) reflection manifolds. **98i:57068**
Belegradek, I. Some curious Kleinian groups and hyperbolic 5-manifolds. (English summary) **98d:57066**
Bianconi, Ricardo (*with* Gusevskiĭ, N. A.; Klimenko, E. Ya.) Schottky type groups and Kleinian groups acting on S^3 with the limit set a wild Cantor set. (English summary) **98c:57039**
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Dekimpe, Karel Polynomial structures and the uniqueness of affinely flat infra-nilmanifolds. **98d:57067**
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Freden, Eric M. Properties of convergence groups and spaces. (English summary) **98e:57051**
Guilbault, Craig R. *see* **Ancel, Fredric D.; et al., 98i:57068**
Gusevskiĭ, N. A. *see* **Bianconi, Ricardo; et al., 98c:57039**
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Abels, Herbert (*with* Margulis, Grigorii A.; Soifer, G. A.) Properly discontinuous groups of affine transformations with orthogonal linear part. (English and French summaries) **98b:22022**
Anderson, James W. (*with* Canary, Richard D.; Culler, Marc; Shalen, Peter B.) Free Kleinian groups and volumes of hyperbolic 3-manifolds. **98c:57012**
Canary, Richard D. *see* **Anderson, James W.; et al.**, **98c:57012**
Cao, Chun (*with* Waterman, P. L.) Conjugacy invariants of Möbius groups. **98k:30058**
Cooper, Daryl (*with* Long, Darren D.) Foliations of some 3-manifolds which fiber over the circle. (English summary) **98e:57021**
Culler, Marc *see* **Anderson, James W.; et al.**, **98c:57012**
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— (*with* Igodt, Paul) Chaque groupe polycyclique-par-fini admet une structure polynomiale de degré borné. (English and French summaries) [Polycyclic-by-finite groups admit a polynomial structure of bounded degree] **98a:20056**
— (*with* Igodt, Paul) Polynomial structures on polycyclic groups. (English summary) **98f:20021**
Do, Ilyong (*with* Hong, Sungbok) Myrberg-Agard density points and Schottky groups. **98c:30052**
Dranishnikov, A. N. Cohomology, dimension and large Riemannian manifolds. (English summary) **98i:54018**
— On the virtual cohomological dimensions of Coxeter groups. (English summary) **98d:55001**
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Grunewald, Fritz *see* **Elstrodt, J.; et al.**, **98g:11058**
Gusevskiĭ, N. A. (*with* Klimenko, E. Ya.) False Schottky groups that act on a three-dimensional sphere. (Russian. Russian summary) **98b:57024**
Hersonsky, Sa'ar (*with* Paulin, Frédéric) On the rigidity of discrete isometry groups of negatively curved spaces. (English summary) **98h:58105**
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Kaneyuki, Soji Signatures of roots and a new characterization of causal symmetric spaces. **98a:53074**
Kapovich, M. È. (*with* Leeb, Bernhard) Actions of discrete groups on nonpositively curved spaces. **98j:57022**
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Neumann, Walter D. Kleinian groups generated by rotations. (English summary) **98g:30074**
Ohshika, Ken'ichi A convergence theorem for Kleinian groups which are free products. **98j:30054**
— Rigidity and topological conjugates of topologically tame Kleinian groups. (English summary) **98m:57019**
Paulin, Frédéric *see* **Hersonsky, Sa'ar**, **98h:58105**
Pollicott, Mark (*with* Sharp, Richard) Comparison theorems and orbit counting in hyperbolic geometry. (English summary) **98d:58146**
Prassidis, Stratos A split exact sequence of equivariant K-groups of virtually nilpotent groups. (English summary) **98j:57038**
Raymond, Frank A. *see* **Dekimpe, Karel; et al.**, (**98b:57002**)
Reni, Marco Cyclic actions on compression bodies. (English summary) **98d:57025**
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Seidel, Paul The symplectic Floer homology of a Dehn twist. (English summary) **98d:57024**
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Starkov, A. N. Parabolic fixed points of Kleinian groups and the horospherical foliation on hyperbolic manifolds. (English summary) **98d:58144**
Tsunoda, Hiroshi Complete special affine flows without closed orbits on 3-dimensional torus bundle over circle. (English summary) **98j:57044**
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Vinberg, Ėrnest Borisovich On kaleidoscopes: a mathematician looks at them in all their dimensions. **98c:52013**
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57S99 None of the above, but in this section

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Bak, Anthony Global actions: an algebraic double of a topological space. (Russian) **98k:18004**
Dranishnikov, A. N. (*with* West, J. E.) Compact group actions that raise dimension to infinity. (English summary) **98i:55006**
Gonçalves, Daciberg Lima (*with* Jezierski, Jerzy) Lefschetz coincidence formula on non-orientable manifolds. (English summary) **98m:55002**
Huang, Bao Jun The topological entropy of homotopy classes of maps. (Chinese. English and Chinese summaries) **98i:54007**
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Ji, Lizhen Satake and Martin compactifications of symmetric spaces are topological balls. **98a:53073**
Kim, Ki Hang (*with* Roush, F. W.; Wagoner, J. B.) Inert actions on periodic points. (English summary) **98i:54021**
Roush, F. W. *see* **Kim, Ki Hang; et al.**, **98i:54021**
Talamini, V. The determination of the orbit spaces of compact coregular linear groups. (English summary) **98m:82027**
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57T05 Hopf algebras [see also 16W30]

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Nishida, Goro *see* **Kordzaya, K. D.**, **98c:55007**
Silverman, Judith H. Stripping and conjugation in the Steenrod algebra. (English summary) **98e:55019**
Zheng, Qibing Twisted product and cohomology. (English summary) **98d:57069**

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Benson, David John (*with* Greenlees, J. P. C.) Commutative algebra for cohomology rings of classifying spaces of compact Lie groups. (English summary) **98j:57054**
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Hamanaka, Hiroaki Homology ring mod 2 of free loop groups of exceptional Lie groups. **98f:57061**
— Adjoint action on homology mod 2 of E_8 on its loop space. **98f:57062**
— (*with* Hara, Shin-ichiro; Kono, Akira[1]) Adjoint actions on the modulo 5 homology groups of E_8 and ΩE_8. **98e:57053**
— (*with* Hara, Shin-ichiro) The mod 3 homology of the space of loops on the exceptional Lie groups and the adjoint action. **98m:57047**
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Minami, Haruo The complex K-groups of the projective orthogonal groups of degree $4l+2$. **98k:57059**
Rao, Vidhyānāth K. Homotopy nilpotent Lie groups have no torsion in homology. (English summary) **98c:57040**
Watanabe, Takashi On the KO-theory of Lie groups and symmetric spaces. **98f:57063**

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Crabb, M. C. (*with* Hubbuck, J. R.; McCall, J. A. W.) Stable summands of $U(n)$. (English summary) **98i:55009**
Hubbuck, J. R. *see* **Crabb, M. C.; et al.**, **98i:55009**
Jardine, J. F. Ultraproducts and the discrete cohomology of algebraic groups. (English summary) **98j:20062**
Majid, Shahn Cross product quantisation, nonabelian cohomology and twisting of Hopf algebras. (English summary) **98h:16065**
McCall, J. A. W. *see* **Crabb, M. C.; et al.**, **98i:55009**
Osse, Akimou λ-structures and representation rings of compact connected Lie groups. (English summary) **98k:55017**
Schneider, Peter[1] The cyclic homology of p-adic reductive groups. **98f:19003**
Wood, Jay A. The Chern character for classical matrix groups. (English summary) **98g:55019**

57T15 Homology and cohomology of homogeneous spaces of Lie groups

Abe, Kōjun (*with* Matsubara, Masaaki) Invariant forms on the exceptional symmetric spaces FII and $EIII$. **98i:57070**
Kajimoto, Hiroshi The Poincaré duality and the Gysin homomorphism for flag manifolds. (English summary) **98i:57071**
Losik, Mark V. The cohomology of the complex of G-invariant forms on G-manifolds. II. (English summary) **98c:57041**
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Fino, A. (*with* Salamon, Simon) Observations on the topology of symmetric spaces. **98a:53071**
Guan, Zhuang Dan A splitting theorem for compact complex homogeneous spaces with a symplectic structure. (English summary) **98a:53105**
Mare, Augustin-Liviu On two results of Singhof. (English summary) **98e:55010**
Ramani, Vimala (*with* Sankaran, Parameswaran) On degrees of maps between Grassmannians. (English summary) **98d:55002**

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57T20 Homotopy groups of topological groups and homogeneous spaces

Dekimpe, Karel Determining the translational part of the fundamental group of an infra-solvmanifold of type (R). (English summary) **98k:57060**
Sekiguchi, Jiro Fundamental groups of semisimple symmetric spaces. II. **98b:57051**

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Tralle, A. E. (*with* Kędra, Jarosław) Compact completely solvable Kähler solvmanifolds are tori. **98h:53108**

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Hamanaka, Hiroaki (*with* Hara, Shin-ichiro; Kono, Akira[1]) Adjoint actions on the modulo 5 homology groups of E_8 and ΩE_8. **98e:57053**
Hara, Shin-ichiro *see* **Hamanaka, Hiroaki; et al., 98e:57053**
Kono, Akira[1] *see* **Hamanaka, Hiroaki; et al., 98e:57053**

57T30 Bar and cobar constructions [see also 18G55, 55Uxx]

Zheng, Qibing Twisted product and cohomology. (English summary) **98d:57069**

Items with secondary classifications in 57T30

Patras, Frédéric Adams operations, iterated integrals and free loop spaces cohomology. (English summary) **98e:55011**

57T35 Applications of Eilenberg-Moore spectral sequences [see also 55R20, 55T20]

Items with secondary classifications in 57T35

Kallel, Sadok Divisor spaces on punctured Riemann surfaces. (English summary) **98h:55025**

57T99 None of the above, but in this section

Henn, Hans-Werner Centralizers of elementary abelian p-subgroups, the Borel construction of the singular locus and applications to the cohomology of discrete groups. **98g:57060**

Items with secondary classifications in 57T99

Tanton, James Stuart A homological fibration for Gl_∞. (English summary) **98g:55018**

58–XX Global analysis, analysis on manifolds [see also 32Cxx, 32Fxx, 46–XX, 47Hxx, 53Cxx; for geometric integration theory, see 49Q15]

58–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Anoshkina, E. V.) *see* **Fomenko, A. T., 98i:58001**
(Belyaev, A. G.) *see* **Fomenko, A. T., 98i:58001**
(Berezanskiĭ, I. A.) *see* **Spivak, Michael David, 98f:58001**
(Bolsinov, A. V.) *see* **Fomenko, A. T., 98i:58001**
Eubank, Stephen G. (*with* Farmer, J. Doyne) Introduction to dynamical systems. (*see* **98b:00013**)
Farmer, J. Doyne *see* **Eubank, Stephen G., (98b:00013)**
Fomenko, A. T. (*with* Kunii, T. L.) ★ Topological modeling for visualization. (English summary) **98i:58001**
Frankel, Theodore ★ The geometry of physics. (English summary) **98h:58001**
Kunii, T. L. *see* **Fomenko, A. T., 98i:58001**
(Matveev, S. V.) *see* **Fomenko, A. T., 98i:58001**
(Orĕl, O. E.) *see* **Fomenko, A. T., 98i:58001**
(Raĭkov, D. A.) *see* **Spivak, Michael David, 98f:58001**
Spivak, Michael David ★ Математический анализ на многообразиях. (Russian) [Mathematical analysis on manifolds] **98f:58001**
(Takahashi, Shigeo) *see* **Fomenko, A. T., 98i:58001**

Items with secondary classifications in 58–01

Alligood, Kathleen T. (*with* Sauer, Timothy D.; Yorke, James A.) ★ Chaos. **98a:58113**
Badii, R. (*with* Politi, Antonio) ★ Complexity. (English summary) **98m:82001**
Bates, Larry M. *see* **Cushman, Richard H., 98a:58083**
Cushman, Richard H. (*with* Bates, Larry M.) ★ Global aspects of classical integrable systems. (English summary) **98a:58083**
(Lam, Lui) *see* **Introduction to nonlinear physics, 98b:00013**
Lang, Serge ★ Undergraduate analysis. (English summary) **98h:00002**
Politi, Antonio *see* **Badii, R., 98m:82001**
Sauer, Timothy D. *see* **Alligood, Kathleen T.; et al., 98a:58113**
Yorke, James A. *see* **Alligood, Kathleen T.; et al., 98a:58113**

Items listed otherwise than by author

Introduction to nonlinear physics ★ Introduction to nonlinear physics. **98b:00013**

58–02 Research exposition (monographs, survey articles)

Baadhio, Randy A. ★ Quantum topology and global anomalies. (English summary) **98k:58001**
Bandyopadhyay, Pratul ★ Geometry, topology and quantization. (English summary) **98b:58001**
(Ginzburg, Viktor L.) *see* **Gliklikh, Yurii E., 98e:58001**
Gliklikh, Yurii E. ★ Global analysis in mathematical physics. **98e:58001**
Kolokol'chikov, V. V. ★ Гамильтоновы системы и релятивизмы. (Russian. Russian summary) [Hamiltonian systems and relativisms] **98j:58001**
Mason, L. J. (*with* Woodhouse, N. M. J.) ★ Integrability, self-duality, and twistor theory. **98f:58002**
Sardanashvili, G. A. ★ Современные методы теории поля. 1. [Modern methods in field theory. 1] **98b:58002**
Woodhouse, N. M. J. *see* **Mason, L. J., 98f:58002**

Items with secondary classifications in 58–02

Aksenov, A. V. *see* **Ibragimov, N. Kh.; et al., 98b:58175**
(Aleksanova, Irene) *see* **Dezin, Aleksei A., 98b:00015**
Anderson, Robert Leonard (*with* Baikov, V. A.; Gazizov, R. K.; Hereman, Willy; Ibragimov, N. Kh.; Mahomed, F. M.; Meleshko, S. V.; Nucci, M. C.; Olver, Peter J.; Sheftel', M. B.; Turbiner, A. V.; Vorob'ev, E. M.) ★ CRC handbook of Lie group analysis of differential equations. Vol. 3. **98b:58176**
(Anoshkina, E. V.) *see* **Fomenko, A. T., 98i:58001**
Baikov, V. A. *see* **Ibragimov, N. Kh.; et al., 98b:58175** *and* **Anderson, Robert Leonard; et al., 98b:58176**
(Belyaev, A. G.) *see* **Fomenko, A. T., 98i:58001**
(Bolsinov, A. V.) *see* **Fomenko, A. T., 98i:58001**
Chugunov, V. A. *see* **Ibragimov, N. Kh.; et al., 98b:58175**
Dezin, Aleksei A. ★ Multidimensional analysis and discrete models. **98b:00015**
(Ellis, George F. R.) *see* **Dynamical systems in cosmology, 98f:83003**
Fomenko, A. T. (*with* Kunii, T. L.) ★ Topological modeling for visualization. (English summary) **98i:58001**
Gazizov, R. K. *see* **Ibragimov, N. Kh.; et al., 98b:58175** *and* **Anderson, Robert Leonard; et al., 98b:58176**
Gliklikh, Yurii E. ★ Ordinary and stochastic differential geometry as a tool for mathematical physics. (English summary) **98k:58246**
Hereman, Willy *see* **Anderson, Robert Leonard; et al., 98b:58176**
Hou, Bo-Yu (*with* Hou, Bo Yuan) ★ Differential geometry for physicists. (English summary) **98m:53002**
Hou, Bo Yuan *see* **Hou, Bo-Yu, 98m:53002**
Ibragimov, N. Kh. (*with* Aksenov, A. V.; Baikov, V. A.; Chugunov, V. A.; Gazizov, R. K.; Meshkov, A. G.) ★ CRC handbook of Lie group analysis of differential equations. Vol. 2. **98b:58175**
— *see also* **Anderson, Robert Leonard; et al., 98b:58176**
Kunii, T. L. *see* **Fomenko, A. T., 98i:58001**
Mackey, George W. The relationship between classical mechanics and quantum mechanics. **98k:81002**
Mahomed, F. M. *see* **Anderson, Robert Leonard; et al., 98b:58176**
(Matveev, S. V.) *see* **Fomenko, A. T., 98i:58001**
Meleshko, S. V. *see* **Anderson, Robert Leonard; et al., 98b:58176**
Meshkov, A. G. *see* **Ibragimov, N. Kh.; et al., 98b:58175**
Nucci, M. C. *see* **Anderson, Robert Leonard; et al., 98b:58176**
Olver, Peter J. *see* **Anderson, Robert Leonard; et al., 98b:58176**
(Orĕl, O. E.) *see* **Fomenko, A. T., 98i:58001**
Osmolovskiĭ, V. G. ★ Линейные и нелинейные возмущения оператора div. (Russian. Russian summary) [Linear and nonlinear perturbations of the operator div] **98k:35018**
— ★ Linear and nonlinear perturbations of the operator div. (English summary) **98a:35014**
(Rozhkovskaya, Tamara) *see* **Osmolovskiĭ, V. G., 98a:35014**
Sheftel', M. B. *see* **Anderson, Robert Leonard; et al., 98b:58176**
(Takahashi, Shigeo) *see* **Fomenko, A. T., 98i:58001**
Turbiner, A. V. *see* **Anderson, Robert Leonard; et al., 98b:58176**
Vorob'ev, E. M. *see* **Anderson, Robert Leonard; et al., 98b:58176**
(Wainwright, John) *see* **Dynamical systems in cosmology, 98f:83003**
(Zastawniak, Tomasz) *see* **Gliklikh, Yurii E., 98k:58246**

Items listed otherwise than by author

Cape Town ★ Dynamical systems in cosmology. **98f:83003**
Dynamical systems in cosmology ★ Dynamical systems in cosmology. **98f:83003**
Handbook:
Lie group analysis of differential equations *see* **Anderson, Robert Leonard; et al., 98b:58176**
Workshop:
Dynamical Systems in Cosmology ★ Dynamical systems in cosmology. **98f:83003**

58–03 Historical (must also be assigned at least one classification number from Section 01)

Smale, Steve Finding a horseshoe on the beaches of Rio. **98i:58002**

Items with secondary classifications in 58–03

Dell'Aglio, Luca On the genesis of the concept of covariant differentiation. (English and French summaries) **98i:01018**
Deng, Zong Qi The history and present state of chaology (chaos theory). (Chinese. English and Chinese summaries)
Diacu, Florin (*with* Holmes, Philip J.) ★ Celestial encounters. (English summary) **98e:70006**
Hildebrandt, Stefan The calculus of variations today [MR 88f:49002]. (Finnish) (*see* **98d:00001**)
Holmes, Philip J. *see* **Diacu, Florin, 98e:70006**
Kolke, Satoshi Tzee-Char Kuo's contributions to real singularities. (English summary) **98m:58013**
(Kuo, Tzee-Char) *see* **Kolke, Satoshi, 98m:58013**
Morse, Marston ★ The calculus of variations in the large. **98f:58070**
Nauenberg, Michael Appendix: historical remarks on chaos. (*see* **98b:00013**)
Shiraiwa, Kenichi Recent development of dynamical systems in Japan. (English summary) (*see* **98f:58004**)
Weissert, Thomas P. ★ The genesis of simulation in dynamics. (English summary) **98h:58054**

58–04 Explicit machine computation and programs (not the theory of computation or programming)

Gragert, P. K. H. (*with* Kersten, P. H. M.) Differential geometric computations and computer algebra. (English summary) **98d:58001**
Kersten, P. H. M. *see* **Gragert, P. K. H., 98d:58001**

Items with secondary classifications in 58–04

Hartley, David Involution analysis for nonlinear exterior differential systems. (English summary) **98e:58012**
Szymczak, Andrzej A combinatorial procedure for finding isolating neighbourhoods and index pairs. (English summary) **98i:58151**
Wang, Yan (*with* Zhu, Wei Yong) Computer construction of an automorphism of a hyperbolic torus and a proof of its chaotic character. (Chinese. English and Chinese summaries)
Zgliczyński, Piotr Computer assisted proof of chaos in the Rössler equations and in the Hénon map. (English summary) **98g:58120**
Zhu, Wei Yong *see* **Wang, Yan**

58–06 Proceedings, conferences, collections, etc.

(Antoniou, Ioannis E.) *see* **Computational tools of complex systems, 98e:58002**
(Aoki, Nobuo) *see* **Dynamical systems and chaos, 98f:58004**
(Aulbach, Bernd) *see* **Six lectures on dynamical systems, 98a:58003**
(Behringer, R. P.) *see* **Nonlinear dynamics and chaos, 98f:58005** *and* **98f:58006**
(Brindley, J.) *see* **Applications of chaos, 98k:58002**
(Buchler, J. Robert) *see* **Nonlinear signal and image analysis, 98k:58003**
(Budzyński, Robert J.) *see* **Symplectic singularities and geometry of gauge fields, 98b:58006**
(Cartier, Pierre) *see* **Functional integration, 98e:58004**
(Chen, Wai-Kai) *see* **Visions of nonlinear science in the 21st century, 98f:58007**
(Chua, Leon O.) *see* **Visions of nonlinear science in the 21st century, 98f:58007**
(Colonius, F.) *see* **Six lectures on dynamical systems, 98a:58003**
(Dewitt-Morette, Cecile) *see* **Functional integration, 98e:58004**
(Evertsz, C. J. G.) *see* **Fractal geometry and analysis, 98i:58003**
(Folacci, Antoine) *see* **Functional integration, 98e:58004**
(Galkowski, A.) *see* **Nonlinear dynamics, chaotic and complex systems, 98e:58005**
(Gutt, Simone) *see* **Deformation theory and symplectic geometry, 98e:58003**
(Huertas, J. L.) *see* **Visions of nonlinear science in the 21st century, 98f:58007**

(Hurtubise, Jacques) *see* **Gauge theory and symplectic geometry, 98a:58001**
(Infeld, E.) *see* **Nonlinear dynamics, chaotic and complex systems, 98e:58005**
(Janeczko, Stanisław) *see* **Symplectic singularities and geometry of gauge fields, 98b:58006**
(Kandrup, Henry E.) *see* **Nonlinear signal and image analysis, 98k:58003**
(Kapitaniak, Tomasz) *see* **Applications of chaos, 98k:58002**
(Kim, Seung-hwan) *see* **Nonlinear dynamics and chaos, 98f:58005** *and* **98f:58006**
(Kondracki, Witold) *see* **Symplectic singularities and geometry of gauge fields, 98b:58006**
(Künzle, Alfred F.) *see* **Symplectic singularities and geometry of gauge fields, 98b:58006**
(Kuperin, Yu. A.) *see* **Computational tools of complex systems, 98e:58002**
(Kuramoto, Yoshiki) *see* **Nonlinear dynamics and chaos, 98f:58005** *and* **98f:58006**
(Kurths, Jürgen) *see* **Physics and dynamics between chaos, order, and noise, 98k:58004**
(Lalonde, François) *see* **Gauge theory and symplectic geometry, 98a:58001**
(Lamb, Jeroen S. W.) *see* **Time-reversal symmetry in dynamical systems, 98i:58004**
(Ledrappier, François) *see* **Conference: Dynamical Systems, 98b:58003**
(Lewowicz, Jorge) *see* **Conference: Dynamical Systems, 98b:58003**
(Madan, R. N.) *see* **Visions of nonlinear science in the 21st century, 98f:58007**
(Mandelbrot, Benoît B.) *see* **Fractal geometry and analysis, 98i:58003**
(Mañé, Ricardo) *see* **Conference: Dynamical Systems, 98b:58003**
(Moon, H. T.) *see* **Nonlinear dynamics and chaos, 98f:58005** *and* **98f:58006**
(Newhouse, Sheldon) *see* **Conference: Dynamical Systems, 98b:58003**
(Nishikawa, Seiki) *see* **Lectures on geometric variational problems, 98b:58004**
(Peitgen, Heinz-Otto) *see* **Fractal geometry and analysis, 98i:58003**
(Pikovskiĭ, A. S.) *see* **Physics and dynamics between chaos, order, and noise, 98k:58004**
(Prigogine, Ilya) *see* **Computational tools of complex systems, 98e:58002**
(Rawnsley, J. H.) *see* **Deformation theory and symplectic geometry, 98e:58003**
(Sabidussi, Gert) *see* **Gauge theory and symplectic geometry, 98a:58001**
(Schoen, Richard M.) *see* **Lectures on geometric variational problems, 98b:58004**
(Shiraiwa, Kenichi) *see* **Dynamical systems and chaos, 98f:58004**
(Sternheimer, Daniel) *see* **Deformation theory and symplectic geometry, 98e:58003**
(Takahashi, Yōichirō) *see* **Dynamical systems and chaos, 98f:58004**
(Trotman, David) *see* **Stratifications, singularities and differential equations, 98e:58006** *and* **98e:58007**
(Voss, R. F.) *see* **Fractal geometry and analysis, 98i:58003**
(Wilson, Leslie Charles) *see* **Stratifications, singularities and differential equations, 98e:58006** *and* **98e:58007**
(Żelazny, R.) *see* **Nonlinear dynamics, chaotic and complex systems, 98e:58005**

Items listed otherwise than by author

Alushta ★ V International Conference on Mathematical Physics, String Theory and Quantum Gravity. **98f:58003**
Applications of chaos ★ Applications of chaos. **98k:58002**
Ascona ★ Deformation theory and symplectic geometry. **98e:58003**
Augsburg ★ Six lectures on dynamical systems. **98a:58003**
Berlin ★ Physics and dynamics between chaos, order, and noise. **98k:58004**
Birthday:
  Chua, Leon O. ★ Visions of nonlinear science in the 21st century. **98f:58007**
Cargèse ★ Functional integration. **98e:58004**
Complex dynamical systems and related areas ★ Fukuso rikigakkei to sono kanren. (Japanese) [Complex dynamical systems and related areas] **98h:58002**
Computational tools of complex systems ★ Computational tools of complex systems. I. **98e:58002**
Conference:
  Applied Chaotic Systems ★ Applications of chaos. **98k:58002**
  Dynamical Systems ★ International Conference on Dynamical Systems. **98b:58003**
  Dynamical Systems and Chaos ★ Dynamical systems and chaos. Vol. 1. **98f:58004**
  Mathematical Physics, String Theory and Quantum Gravity ★ V International Conference on Mathematical Physics, String Theory and Quantum Gravity. **98f:58003**
  Nonlinear Dynamics, Chaotic and Complex Systems ★ Nonlinear dynamics, chaotic and complex systems. **98e:58005**
  Singularities ★ Stratifications, singularities and differential equations. I. **98e:58006**
  — ★ Stratifications, singularities and differential equations. II. **98e:58007**
  Stratifications and Singularities ★ Stratifications, singularities and differential equations. I. **98e:58006**
  — ★ Stratifications, singularities and differential equations. II. **98e:58007**
Coventry ★ Time-reversal symmetry in dynamical systems. **98i:58004**
Curaçao ★ Fractal geometry and analysis. **98i:58003**
Deformation theory and symplectic geometry ★ Deformation theory and symplectic geometry. **98e:58003**
Dynamical systems and chaos ★ Dynamical systems and chaos. Vol. 1. **98f:58004**
Festschrift:
  Mandelbrot, Benoit B. ★ Fractal geometry and analysis. **98i:58003**
Fractal geometry and analysis ★ Fractal geometry and analysis. **98i:58003**
Functional integration ★ Functional integration. **98e:58004**
Gainesville, FL ★ Nonlinear signal and image analysis. **98k:58003**
Gauge theory and symplectic geometry ★ Gauge theory and symplectic geometry. **98a:58001**
Hachioji ★ Dynamical systems and chaos. Vol. 1. **98f:58004**
Honolulu, HI ★ Stratifications, singularities and differential equations. I. **98e:58006**
— ★ Stratifications, singularities and differential equations. II. **98e:58007**
Inowłodz ★ Applications of chaos. **98k:58002**
Lectures on geometric variational problems ★ Lectures on geometric variational problems. **98b:58004**
Lleida ★ Proceedings of the Symposium on Planar Vector Fields. **98a:58002**
Marseille ★ Stratifications, singularities and differential equations. I. **98e:58006**
— ★ Stratifications, singularities and differential equations. II. **98e:58007**
Meeting:
  Deformation Theory and Symplectic Geometry and Applications ★ Deformation theory and symplectic geometry. **98e:58003**
Montevideo ★ International Conference on Dynamical Systems. **98b:58003**
Montreal, PQ ★ Gauge theory and symplectic geometry. **98a:58001**
NATO Advanced Study Institute:
  Functional Integration: Basics and Applications ★ Functional integration. **98e:58004**
  Gauge Theory and Symplectic Geometry ★ Gauge theory and symplectic geometry. **98a:58001**
Nonlinear dynamics and chaos ★ Nonlinear dynamics and chaos. Part I. **98f:58005**
— ★ Nonlinear dynamics and chaos. Part II. **98f:58006**
Nonlinear dynamics, chaotic and complex systems ★ Nonlinear dynamics, chaotic and complex systems. **98e:58005**
Nonlinear signal and image analysis ★ Nonlinear signal and image analysis. **98k:58003**
Physics and dynamics between chaos, order, and noise ★ Physics and dynamics between chaos, order, and noise. **98k:58004**
Pohang ★ Nonlinear dynamics and chaos. Part I. **98f:58005**
— ★ Nonlinear dynamics and chaos. Part II. **98f:58006**
Problems concerning complex dynamical systems ★ Fukuso rikigakkei ni kan suru sho mondai. (Japanese) [Problems concerning complex dynamical systems] **98b:58005**
Proceedings:
  Symposium on Planar Vector Fields ★ Proceedings of the Symposium on Planar Vector Fields. **98a:58002**
Seminar:
  Gauge Theory and Symplectic Geometry ★ Gauge theory and symplectic geometry. **98a:58001**
Sendai ★ Lectures on geometric variational problems. **98b:58004**
Sevilla ★ Visions of nonlinear science in the 21st century. **98f:58007**
Six lectures on dynamical systems ★ Six lectures on dynamical systems. **98a:58003**
Stratifications, singularities and differential equations ★ Stratifications, singularities and differential equations. I. **98e:58006**
— ★ Stratifications, singularities and differential equations. II. **98e:58007**
Symplectic singularities and geometry of gauge fields ★ Symplectic singularities and geometry of gauge fields. **98b:58006**
Symposium:
  Complex Dynamical Systems and Related Areas ★ Fukuso rikigakkei to sono kanren. (Japanese) [Complex dynamical systems and related areas] **98h:58002**
  Mandelbrot, Benoit B. ★ Fractal geometry and analysis. **98i:58003**
  Planar Vector Fields ★ Proceedings of the Symposium on Planar Vector Fields. **98a:58002**
  Problems Concerning Complex Dynamical Systems ★ Fukuso rikigakkei ni kan suru sho mondai. (Japanese) [Problems concerning complex dynamical systems] **98b:58005**
  Symplectic Singularities and Geometry of Gauge Fields ★ Symplectic singularities and geometry of gauge fields. **98b:58006**
Time-reversal symmetry in dynamical systems ★ Time-reversal symmetry in dynamical systems. **98i:58004**
Visions of nonlinear science in the 21st century ★ Visions of nonlinear science in the 21st century. **98f:58007**
Warsaw ★ Symplectic singularities and geometry of gauge fields. **98b:58006**
Workshop:
  Dynamical Systems ★ Six lectures on dynamical systems. **98a:58003**
  Nonlinear Astronomy and Physics ★ Nonlinear signal and image analysis. **98k:58003**
  Nonlinear Dynamics and Chaos ★ Nonlinear dynamics and chaos. Part I. **98f:58005**
  — ★ Nonlinear dynamics and chaos. Part II. **98f:58006**
  Physics and Dynamics between Chaos, Order, and Noise ★ Physics and dynamics between chaos, order, and noise. **98k:58004**
  Time-reversal Symmetry in Dynamical Systems ★ Time-reversal symmetry in dynamical systems. **98i:58004**
  Visions of Nonlinear Science in the 21st Century ★ Visions of nonlinear science in the 21st century. **98f:58007**
Zakopane ★ Nonlinear dynamics, chaotic and complex systems. **98e:58005**

Items with secondary classifications in 58–06

(Apanasov, Boris N.) *see* **Geometry, topology and physics, 98k:00014**
(Berrick, A. J.) *see* **Geometry from the Pacific Rim, 98c:00011**
(Bradlow, Steven B.) *see* **Geometry, topology and physics, 98k:00014**
(Capovilla, R.) *see* **Complex systems and binary networks, 98f:00022**
(Chaté, Hugues) *see* **Lattice dynamics, 98b:00025**
(Coburn, Lewis A.) *see* **Perspectives on quantization, 98g:00029**
(Colomo, F.) *see* **Constraint theory and quantization methods, 98d:00015**
(Courbage, Maurice) *see* **Lattice dynamics, 98b:00025**
(Demuth, Michael) *see* **Spectral theory, microlocal analysis, singular manifolds, 98k:00010**
(Drábek, Pavel) *see* **Topological and variational methods for nonlinear boundary value problems, 98e:00023**
(Friedman, Robert David) *see* **Gauge theory and the topology of four-manifolds, 98j:57001**
(Fukuda, Takuo) *see* **Real analytic and algebraic singularities, 98i:32001**
(Fukui, Toshizumi) *see* **Real analytic and algebraic singularities, 98i:32001**
(García-Pelayo, R.) *see* **Complex systems and binary networks, 98f:00022**
(Gu, Chao Hao) *see* **Soliton theory and its applications, 98j:58064**
(Izumiya, Shyuichi) *see* **Real analytic and algebraic singularities, 98i:32001**
(Jamiołkowski, Andrzej) *see* **Proceedings: Symposium on Mathematical Physics, 98i:00033**
(Kalyakin, L. A.) *see* **Integrability in dynamical systems, 98k:00007**
(Koike, Satoshi) *see* **Real analytic and algebraic singularities, 98i:32001**
(Loo, Bonaventure) *see* **Geometry from the Pacific Rim, 98c:00011**
(López-Peña, Ramón) *see* **Complex systems and binary networks, 98f:00022**
(Lusanna, Luca) *see* **Constraint theory and quantization methods, 98d:00015**
(Mandelbrot, Benoît B.) *see* **Complex dynamics in economic and social systems, 98a:90007**
(Marar, W. L.) *see* **Real and complex singularities, 98e:32001**
(Marmo, Giuseppe) *see* **Constraint theory and quantization methods, 98d:00015**
(Martínez-Mekler, G.) *see* **Dynamics of nonlinear and disordered systems, 98f:00023**
(Masuda, Kyōya) *see* **Finite- and infinite-dimensional dynamics, 98d:00017**
(Michalski, Miłosz) *see* **Proceedings: Symposium on Mathematical Physics, 98i:00033**
(Mimura, Masayasu) *see* **Finite- and infinite-dimensional dynamics, 98d:00017**
(Morgan, John W.) *see* **Gauge theory and the topology of four-manifolds, 98j:57001**
(Mrugała, Ryszard) *see* **Proceedings: Symposium on Mathematical Physics, 98i:00033**

(Puu, Tõnu) *see* **Complex dynamics in economic and social systems, 98a:90007**
(Rieffel, Marc A.) *see* **Perspectives on quantization, 98g:00029**
(Rodrigues, Waldyr Alves, Jr.) *see* **Geometry, topology and physics, 98k:00014**
(Schrohe, Elmar) *see* **Spectral theory, microlocal analysis, singular manifolds, 98k:00010**
(Schulze, Bert-Wolfgang) *see* **Spectral theory, microlocal analysis, singular manifolds, 98k:00010**
(Schurz, Gerhard) *see* **Law and prediction in the light of chaos research, 98b:00014**
(Seligman, Thomas H.) *see* **Dynamics of nonlinear and disordered systems, 98f:00023**
(Sjöstrand, Johannes) *see* **Spectral theory, microlocal analysis, singular manifolds, 98k:00010**
(Slovák, Jan) *see* **Proceedings: School "Geometry and Physics", 98b:00032**
(Tsagas, Grigorios T.) *see* **New frontiers in algebras, groups and geometries, 98d:00020**
(Uhlenbeck, Karen K.) *see* **Geometry, topology and physics, 98k:00014**
(Waelbroeck, H.) *see* **Complex systems and binary networks, 98f:00022**
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Campinas ★ Geometry, topology and physics. **98k:00014**
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— ★ Law and prediction in the light of chaos research. **98b:00014**
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  Algebraic Analysis Methods in Microlocal Analysis ★ Chōkyokusho kaiseki ni okeru daisū kaisekiteki hōhō. [Algebraic analysis methods in microlocal analysis] **98h:00024**
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58Axx General theory of differentiable manifolds

58A03 Topos-theoretic approach to differentiable manifolds

Kock, Anders Combinatorics of curvature, and the Bianchi identity. (English summary) **98c:58001**
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Nishimura, Hirokazu Logical quantization of differential geometry. (English summary) **98c:81011**
— Theory of microcubes. (English summary) **98h:51027**

58A05 Differentiable manifolds, foundations

David, Liana (*with* Papuc, Dan I.) About positive operators on vector bundles. (Italian summary) **98h:58003**
Hector, Gilbert Géométrie et topologie des espaces difféologiques. (English summary) [Geometry and topology of diffeological spaces] **98f:58008**
Mikulski, W. M. Product preserving bundle functors on fibered manifolds. (English summary) **98d:58002**
Papuc, Dan I. Field cones and positive operators on regular vector bundles. **98i:58005**
— *see also* **David, Liana, 98h:58003**
Radu, Florian Des considerations algèbriques sur la notion de l'espace tangent. (Romanian summary) [Some algebraic considerations about the notion of tangent space]
Tierno, Guzman A geometric characterization of differentiable manifolds in $\mathbb{R}^m$. (Italian. English summary) **98j:58002**
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— Existence of orbifolds. IV. Examples. (English summary) **98b:18019**
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58A07 Real-analytic and Nash manifolds [see also 14P20, 32C07]

Kawakami, Tomohiro Nash structures of equivariant smooth manifolds and equivariant smooth vector bundles. **98i:58006**
— A note on exponentially Nash G manifolds and vector bundles. **98c:58002**

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Kawakami, Tomohiro Equivariant exponentially Nash vector bundles. (English summary) **98f:14045**
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58A10 Differential forms

Beltrán, J. V. (*with* Monterde, J.; Sánchez-Valenzuela, O. A.) Graded Jacobi operators on the algebra of differential forms. (English summary) **98b:58007**
Bolik, Jürgen A priori estimates for differential forms with components in $C^{1,\lambda}$. (English summary) **98k:58005**
Chu, Chong-Sun (*with* Ho, Pei-Ming) Poisson algebra of differential forms. (English summary) **98m:58001**
Gross, Christian Operators on differential forms for Lie transformation groups. (English summary) **98j:58003**
— A generalization of the exterior product of differential forms combining Hom-valued forms. (English summary) **98k:58006**
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Marle, Charles-Michel The Schouten-Nijenhuis bracket and interior products. (English summary) **98i:58007**
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Selvaggi, Renata (*with* Sisto, Irene) Differential forms in C^1-domains. (English and Italian summaries) **98f:58009**
Sisto, Irene *see* **Selvaggi, Renata**, **98f:58009**
Weck, Norbert The poloidal-toroidal decomposition of differential forms. (English summary) **98k:58007**

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Coll, Bartolomé (*with* San José, Fernando) On the Lie algebras generated by two two-forms in Minkowski space-time. (English summary) **98a:17055**
Guíñez, Víctor *see* **Gutiérrez, Carlos**, **98h:58021**
Gutiérrez, Carlos (*with* Guíñez, Víctor) Positive quadratic differential forms: linearization, finite determinacy and versal unfolding. (English and French summaries) **98h:58021**
Kuvshinov, B. N. (*with* Schep, T. J.) Geometrical approach to fluid models. (English summary) **98i:76004**
Losik, Mark V. The cohomology of the complex of G-invariant forms on G-manifolds. II. (English summary) **98c:57041**
Mormul, P. (*with* Zhitomirskii, M.) Modules of vector fields, differential forms and degenerations of differential systems. (English summary) **98a:58005**
Nijenhuis, Albert Vector form brackets in Lie algebroids. (English summary) **98g:58191**
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58A12 de Rham theory [see also 14Fxx]

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Gustafsson, Björn (*with* Khavinson, Dmitry) On annihilators of harmonic vector fields. (English and Russian summaries) **98f:58010**
Ibáñez, Raúl Harmonic cohomology classes of almost cosymplectic manifolds. **98d:58003**
— *see also* **Fernández, Marisa; et al.**, **98k:58008**
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— Equivariant cohomology of the skyrmion bundle. **98j:53082**
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Madsen, Ib (*with* Tornehave, Jørgen) ★ From calculus to cohomology. (English summary) **98g:57040**
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Pak, Jin Suk (*with* Jung, Seoung Dal) Clifford L^2-cohomology on the complete Kähler manifolds. **98e:58176**
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58A14 Hodge theory [see also 14C30, 14Fxx, 32J25, 32S35]

Alexandru-Ruginâ, Dragomirna Harmonic forms and L_p-cohomology. **98d:58004**
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Lott, J. L^2-cohomology of geometrically infinite hyperbolic 3-manifolds. (English summary) **98a:58148**
Mitrea, Dorina (*with* Mitrea, Marius) Boundary integral methods for harmonic differential forms in Lipschitz domains. (English summary) **98c:35030**
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58A15 Exterior differential systems (Cartan theory)

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— Involution analysis for nonlinear exterior differential systems. (English summary) **98e:58012**
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Chiappori, Pierre-André (*with* Ekeland, Ivar) Problèmes d'agrégation en théorie du consommateur et calcul différentiel extérieur. (English and French summaries) [Aggregation problems in consumer theory and exterior differential calculus] **98a:90035**
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58A17 Pfaffian systems

Anderson, Ian M. *see* **Juráš, Martin**, **98h:58004**
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Izumiya, Shyuichi Local classifications of multi-valued solutions of quasilinear first order partial differential equations. **98j:58006**
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58A20 Jets

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Dhooghe, Paul F. Multilocal invariants. **98b:58010**
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— (*with* Kurek, Jan) Liftings of covariant $(0,2)$-tensor fields to the bundle of k-dimensional 1-velocities. (English summary) **98f:58012**
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Shmelev, A. S. Functional moduli of germs of Riemannian metrics. (Russian. Russian summary) **98k:58012**
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Kureš, Miroslav Natural lifts of classical linear connections to the cotangent bundle. (English summary) **98i:53031**
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Muñoz Masqué, J. (*with* Coronado, L. M. Pozo) Higher-order gauge invariant Lagrangians on T^*M. (English summary) **98c:58044**
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Torre, Charles G. Spinors, jets, and the Einstein equations. (English summary) **98h:83060**
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58A25 Currents [see also 32C30, 53C65]

Dupont, Johan L. (*with* Just, Henrik) Simplicial currents. **98m:58003**
El Kacimi Alaoui, Aziz (*with* Matsumoto, Shigenori; Moussa, Tarek) Currents invariant by a Kleinian group. (English summary) **98b:58011**
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Bernatzki, Felicia On the existence and regularity of mass-minimizing currents with an elastic boundary. (English summary) **98k:49055**
Selvaggi, Renata (*with* Sisto, Irene) Differential forms in C^1-domains. (English and Italian summaries) **98f:58009**
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58A30 Vector distributions (subbundles of the tangent bundles)

Cruceanu, Vasile A new definition for certain lifts on a vector bundle. **98f:58014**
González-Gascón, Francisco Divergence-free vectorfields and integration via quadratures. (English summary) **98f:58015**

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Golubev, Alexander On the global stability of maximally nonholonomic two-plane fields in four dimensions. **98g:57043**
Kazaryan, M. É. (*with* Montgomery, Richard; Shapiro, Boris Z.) Characteristic classes for the degenerations of two-plane fields in four dimensions. (English summary) **98d:57046**
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Petrov, Nikolai Nikolaevich Some problems on the qualitative theory of dynamical polysystems. (Russian. Russian summary) **98c:58043**
Sarychev, A. V. *see* **Agrachev, A. A.**, **98e:49047**
Shapiro, Boris Z. *see* **Kazaryan, M. É.; et al.**, **98d:57046**
Tarrio, A. On certain classes of metric para-φ-manifolds with parallelizable kernel. **98e:53049**
Vosylius, R. On the theory of differential-geometric connections. I. (Russian. Lithuanian summary) **98f:53025**

58A35 Stratified sets [see also 32S60, 58C27]

Bekka, Karim Regular quasi-homogeneous stratifications. **98i:58012**
Perkal, Narwin A partial equivalence of two C^∞ regularity conditions. **98j:58007**
Trotman, David Espaces stratifiés réels. [Real stratified spaces] **98k:58013**

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Cabello Pardos, A. B. (*with* Hajto, Z.) Stratifications adapted to finite families of differential 1-forms (Pfaffian geometry. I). (English summary) **98a:32008**
Domitrz, Wojciech (*with* Janeczko, Stanisław) On Martinet's singular symplectic structures. **98i:58086**
Ferrarotti, Massimo A complex of stratified forms satisfying de Rham's theorem. (English summary) **98i:58008**
— Some results about volume of stratified sets. **98k:32053**
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Janeczko, Stanisław *see* **Domitrz, Wojciech**, **98i:58086**
King, Henry Churchill Topology of isolated critical points of functions on singular spaces. **98j:57052**
Koike, Satoshi Modified Nash triviality theorem for a family of zero-sets of weighted homogeneous polynomial mappings. **98i:58033**
Kuo, Tzee-Char Some ideas of René Thom and their outcomes. (English summary) **98i:58034**
McCrory, Clint (*with* Parusiński, Adam) Algebraically constructible functions. (English and French summaries) **98f:14047**

Merle, Michel On some points of local analytic geometry. **98m:32007**
Parusiński, Adam *see* **McCrory, Clint, 98f:14047**
Robert, Jean-Marc Geometric orderings of intersecting translates and their applications. (English summary) **98a:52023**

58A40 Differential spaces

Flondor, Paul (*with* Pascu, Eugen) "Even parts" of supermanifolds are differentiable spaces. **98a:58007**
Jurchescu, Martin (*with* Spallek, Karlheinz) Differentiable spaces as functored spaces. **98e:58015**
Pascu, Eugen (*with* Spallek, Karlheinz) Foliated differentiable spaces with superdifferentiable and mixed manifolds as special cases. **98a:58008**
— *see also* **Flondor, Paul, 98a:58007**
Przybylski, Bronisław Singularities of principal-directed curves in the plane. I. **98b:58012**
— Singularities of principal-directed curves in the plane. II. **98b:58013**
Spallek, Karlheinz *see* **Pascu, Eugen, 98a:58008** *and* **Jurchescu, Martin, 98e:58015**

58A50 Supermanifolds and graded manifolds [see also 14A22, 32C11]

Abramov, Viktor (*with* Kerner, Richard; Le Roy, Bertrand) Hypersymmetry: a Z_3-graded generalization of supersymmetry. (English summary) **98i:58013**
de Azcárraga, José A. (*with* Izquierdo, José M.[1]; Perelomov, A. M.; Pérez Bueno, J. C.) The Z_2-graded Schouten-Nijenhuis bracket and generalized super-Poisson structures. (English summary) **98e:58016**
Bartocci, C. (*with* Bruzzo, U.; Hernández Ruipérez, D.; Pestov, V.) Supermanifold theory: towards a unifying approach. (English summary) **98i:58014**
Berezin, V. T. The geometric structure of the base, and the twisting of the graded fiber bundles used in modeling gravitation and elementary particles. (Russian. English and Russian summaries) **98j:58008**
Bruzzo, U. *see* **Bartocci, C.; et al., 98i:58014**
Cristea, Valentin Totally geodesic graded Riemannian submanifolds of the (4, 4)-dimensional graded Riemannian manifold. (English summary) **98f:58016**
Gierès, François Supersymétrie et mathématiques. (French summary) [Supersymmetry and mathematics] **98c:58004**
Hernández Ruipérez, D. *see* **Bartocci, C.; et al., 98i:58014**
Izquierdo, José M.[1] *see* **de Azcárraga, José A.; et al., 98e:58016**
Kerner, Richard *see* **Abramov, Viktor; et al., 98i:58013**
Le Roy, Bertrand *see* **Abramov, Viktor; et al., 98i:58013**
Monterde, J. (*with* Sánchez-Valenzuela, O. A.) Graded metrics adapted to splittings. (English summary) **98h:58008**
Onishchik, A. L. Flag supermanifolds, their automorphisms and deformations. **98c:58005**
Perelomov, A. M. *see* **de Azcárraga, José A.; et al., 98e:58016**
Pérez Bueno, J. C. *see* **de Azcárraga, José A.; et al., 98e:58016**
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Baguis, P. (*with* Stavracou, T.) Marsden-Weinstein reduction on graded symplectic manifolds. (English summary) **98g:58053**
Belopolsky, Alexander De Rham cohomology of the supermanifolds and superstring BRST cohomology. (English summary) **98m:32009**
Beltrán, J. V. (*with* Monterde, J.; Sánchez-Valenzuela, O. A.) Graded Jacobi operators on the algebra of differential forms. (English summary) **98b:58007**
Berezin, V. T. Group and geometrical properties of graded fibre bundles in modelling the gravitation and elementary particles. (English, Russian and Ukrainian summaries) **98b:81067**
Bouwknegt, Peter (*with* McCarthy, James G.; van Nieuwenhuizen, Peter) Fusing the coordinates of quantum superspace. (English summary) **98f:58022**
Bunegina, V. A. (*with* Onishchik, A. L.) Homogeneous supermanifolds associated with the complex projective line. **98c:32010**
Flondor, Paul (*with* Pascu, Eugen) "Even parts" of supermanifolds are differentiable spaces. **98a:58007**
Jue, C. *see* **Lee, Kyung-Hwa; et al., 98e:81172**
Kim, Y. J. *see* **Lee, Kyung-Hwa; et al., 98e:81172**
Konechnyĭ, Anatoliĭ (*with* Schwarz, Albert S.) Geometry of $N = 1$ super Yang-Mills theory in curved superspace. (English summary) **98g:32011**
Kraus, Margarita ★ BRS-Transformationen und Slavnov-Taylor-Identitäten in einem endlichdimensionalen Modell. (German) [BRS transformations and Slavnov-Taylor identities in a finite-dimensional model] **98b:81266**
Lee, Kyung-Hwa (*with* Kim, Y. J.; Jue, C.) Representations of superfields. (English summary) **98e:81172**
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Monterde, J. *see* **Beltrán, J. V.; et al., 98b:58007**
van Nieuwenhuizen, Peter *see* **Bouwknegt, Peter; et al., 98f:58022**
Onishchik, A. L. *see* **Bunegina, V. A., 98c:32010**
Pascu, Eugen (*with* Spallek, Karlheinz) Foliated differentiable spaces with superdifferentiable and mixed manifolds as special cases. **98a:58008**
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Platonova, O. V. On homogeneous supervarieties of dimension 2|2. (Russian) **98d:14065**
Pletnev, N. G. (*with* Serebryakova, D. V.) Superalgebra of conformal deformations of twistor-like superspaces. (Russian. English and Russian summaries) **98k:81102**
Sánchez-Valenzuela, O. A. *see* **Beltrán, J. V.; et al., 98b:58007**
Schmitt, Thomas[1] Functionals of classical fields in quantum field theory. (English summary) **98b:81273**
— Symplectic solution supermanifolds in field theory. (English summary) **98k:81157**
Schwarz, Albert S. *see* **Konechnyĭ, Anatoliĭ, 98g:32011**
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Stavracou, T. *see* **Baguis, P., 98g:58053**
Văcaru, S. I. Superstrings in higher order extensions of Finsler superspaces. (English summary) **98j:81303**
Voronov, F. F. A complex generated by variational derivatives. Lagrangian formalism of infinite order and a generalization of the Stokes formula. (Russian) **98b:58042**

58A99 None of the above, but in this section

Items with secondary classifications in 58A99

Lychagin, V. V. Differential geometry via differential equations. **98e:53035**

58Bxx Infinite-dimensional manifolds

Kriegl, Andreas (*with* Michor, Peter W.) ★ The convenient setting of global analysis. (English summary) **98i:58015**
Michor, Peter W. *see* **Kriegl, Andreas, 98i:58015**

Items with secondary classifications in 58Bxx

Connes, Alain Noncommutative geometry. (Finnish) (*see* **98d:00001**)

58B05 Homotopy and topological questions

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Bryan, Jim (*with* Sanders, Marc) The rank stable topology of instantons of $\overline{\mathbb{CP}}^2$. (English summary) **98b:58028**
Datta, Mahuya A homotopy classification of symplectic immersions. **98h:58025**
Sanders, Marc *see* **Bryan, Jim, 98b:58028**

58B10 Differentiability questions

Bates, S. M. On smooth, nonlinear surjections of Banach spaces. (English summary) **98i:58016**
Michor, Peter W. (*with* Vanžura, Jiří) Characterizing algebras of C^∞-functions on manifolds. (English summary) **98e:58017**
Taniguchi, Setsuo Almost complex structures on path groups. (English summary) **98f:58017**
Vanžura, Jiří *see* **Michor, Peter W., 98e:58017**

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Serovaĭskiĭ, S. Ya. Extremal problems on differentiable submanifolds of a Banach space. (Russian) **98a:49038**

58B12 Questions of holomorphy [see also 32–XX, 46G20]

Abd-Alla, Mohamed Z. Sur les isométries de la boule unité de $l^1(\mathbf{N})$ pour la distance de Kobayashi. (English, French and Arabic summaries) [Isometries of the open unit ball of $l^1(\mathbf{N})$ for the Kobayashi distance] **98f:58018**
Sękowski, Tadeusz (*with* Stachura, Adam) Holomorphic non-equivalence of balls in Banach spaces l_p and L_2 from the geometrical point of view. (English summary) **98f:58019**
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Items with secondary classifications in 58B12

Bayoumi, Aboubakr Infinite-dimensional holomorphy without convexity condition. I. The Levi problem in nonlocally convex spaces. (English summary) **98m:46061**
Dineen, Seán Complex analysis in an infinite-dimensional setting. **98e:46053**
Harris, Lawrence A. Holomorphic mappings of domains in operator spaces. **98k:46074**
Kajiwara, Joji (*with* Li, Xia Dong; Ohgai, Seiko; Zhou, Dong Guo) Characterization of the holomorphy of infinite-dimensional domains by Oka's principle. **98k:32041**
Khatskevich, V. A. (*with* Reich, Simeon; Shoikhet, David) Complex dynamical systems on bounded symmetric domains. (English summary) **98h:47086**
Li, Xia Dong *see* **Kajiwara, Joji; et al., 98k:32041**
Matsuda, Yasuo Extension of holomorphic mappings into manifolds with weak disc property. (English summary) **98j:46045**
Ohgai, Seiko *see* **Kajiwara, Joji; et al., 98k:32041**
Reich, Simeon *see* **Khatskevich, V. A.; et al., 98h:47086**
Shoikhet, David *see* **Khatskevich, V. A.; et al., 98h:47086**
Zhou, Dong Guo *see* **Kajiwara, Joji; et al., 98k:32041**

58B15 Fredholm structures [see also 47A53]

Andreadis, Ioannis (*with* Pelletier, Fernand; Pnevmatikos, Spyros N.) Structures symplectiques fredholmiennes. (English summary) [Fredholm symplectic structure] **98i:58017**
Pelletier, Fernand *see* **Andreadis, Ioannis; et al., 98i:58017**
Pnevmatikos, Spyros N. *see* **Andreadis, Ioannis; et al., 98i:58017**

Items with secondary classifications in 58B15

Zvyagin, V. G. The zero point index of a completely continuous perturbation of a Fredholm mapping that commutes with the action of a torus. (Russian) **98j:47142**

58B20 Riemannian, Finsler and other geometric structures [see also 53C20, 53C60]

Andreadis, Ioannis Constraints in pseudo-Riemannian geometry of infinite dimension. **98i:58018**
Atkin, Christopher J. Geodesic and metric completeness in infinite dimensions. (English summary) **98f:58020**

Fomin, V. E. *see* **Lashin, Èĭ-Said Radvan, 98k:58014**
Lashin, Èĭ-Said Radvan (*with* Fomin, V. E.) Canonical form of the metric of a Riemannian space of constant curvature of Banach type. (Russian) **98k:58014**
Misiołek, G. The exponential map on the free loop space is Fredholm. (English summary) **98c:58018**
Mokhov, O. I. Poisson and symplectic geometry on loop spaces of smooth manifolds. (English summary) **98f:58021**
Nikolaishvili, V. On differential forms of infinite degrees. I. (English and Georgian summaries) **98e:58019**
Shigekawa, Ichiro (*with* Taniguchi, Setsuo) A Kähler metric on a based loop group and a covariant differentiation. **98j:58009**
Taniguchi, Setsuo *see* **Shigekawa, Ichiro, 98j:58009**
Yoshida, Kyo Instability of the motion of an ideal fluid contained in 2-sphere as a geodesic equation. (English summary) **98m:58004**

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Anandan, Jeeva S. (*with* Pati, Arun K.) Geometry of the Josephson effect. (English summary) **98e:82045**
Andruchow, E. (*with* Larotonda, Angel R.; Recht, Lázaro; Stojanoff, D.) Infinite-dimensional homogeneous reductive spaces and finite index conditional expectations. **98c:46108**
— (*with* Corach, G.; Stojanoff, D.) Geometric operator inequalities. (English summary) **98c:47020**
Arnaudon, Marc (*with* Paycha, S.) Stochastic tools on Hilbert manifolds: interplay with geometry and physics. (English summary) **98m:58145**
Corach, G. *see* **Andruchow, E.; et al., 98c:47020**
Drechsler, W. (*with* Tuckey, Philip A.) On quantum and parallel transport in a Hilbert bundle over spacetime. (English summary) **98b:81115**
Fang, Shizan (*with* Franchi, Jacques) De Rham-Hodge-Kodaira operator on loop groups. (English summary) **98k:58245**
Franchi, Jacques *see* **Fang, Shizan, 98k:58245**
Kůrka, Petr A Riemannian geometry for thermodynamic state space. (English summary) **98f:80001**
Larotonda, Angel R. *see* **Andruchow, E.; et al., 98c:46108**
Larsen, Jens Chr. Electrical network theory of countable graphs. (English summary) **98h:94029**
Pati, Arun K. *see* **Anandan, Jeeva S., 98e:82045**
Paycha, S. *see* **Arnaudon, Marc, 98m:58145**
Porta, Horacio (*with* Recht, Lázaro) Exponential sets and their geometric motions. (English summary) **98i:46059**
Rabier, Patrick J. Ehresmann fibrations and Palais-Smale conditions for morphisms of Finsler manifolds. (English summary) **98m:58020**
Recht, Lázaro *see* **Andruchow, E.; et al., 98c:46108** *and* **Porta, Horacio, 98i:46059**
Salomonsen, Gorm On the completions of the spaces of metrics on an open manifold. II. (English summary) **98j:58020**
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Tuckey, Philip A. *see* **Drechsler, W., 98b:81115**
Vanini, Paolo Geometry and analysis on isospectral sets. II. Grassmannian, determinant bundle and the tau function, asymptotic case. (English summary) **98b:58137**
Yur'ev, Denis V. Infinite-dimensional geometry and quantum field theory of strings. II. Infinite-dimensional noncommutative geometry of a self-interacting string field. (English summary) **98g:58010**

58B25 Group structures and generalizations on infinite-dimensional manifolds [see also 22E65, 58D05]

Galanis, George N. Infinite jets and projective limits of bundles. **98g:58005**
— *see also* **Vassiliou, Efstathios, 98e:58020**
Heintze, Ernst (*with* Liu, Xiaobo) A splitting theorem for isoparametric submanifolds in Hilbert space. **98c:58006**
Léandre, Rémi Hilbert space of spinor fields over the free loop space. **98a:58009**
Liu, Xiaobo *see* **Heintze, Ernst, 98c:58006**
Margalef-Roig, J. (*with* Outerelo-Domínguez, E.; Padrón, Edith) Principal bundles on infinite-dimensional manifolds with corners. **98a:58010**
Outerelo-Domínguez, E. *see* **Margalef-Roig, J.; et al., 98a:58010**
Padrón, Edith *see* **Margalef-Roig, J.; et al., 98a:58010**
Vassiliou, Efstathios (*with* Galanis, George N.) A generalized frame bundle for certain Fréchet vector bundles and linear connections. (English summary) **98e:58020**
Zajtz, Andrzej Calculus of flows on convenient manifolds. (English summary) **98b:58014**

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Banyaga, Augustin ★ The structure of classical diffeomorphism groups. (English summary) **98h:22024**
Booss, Bernhelm (*with* Morchio, G.; Strocchi, F.; Wojciechowski, Krzysztof P.) Grassmannian and chiral anomaly. (English summary) **98d:58186**
Brylinski, Jean-Luc Coadjoint orbits of central extensions of gauge groups. (English summary) **98m:22025**
Frenkel, Igor B. (*with* Khesin, Boris A.) Four-dimensional realization of two-dimensional current groups. (English summary) **98c:22018**
Fuchs, Jürgen The singularity structure of the Yang-Mills configuration space. (English summary) **98e:58031**
Galanis, George N. The bundle of 1-jets of the sections of a Frechet principal bundle. **98i:58011**
(Gould, G. G.) *see* **Neretin, Yu. A., 98b:22003**
Kamran, Niky *see* **Robart, Thierry, 98h:58208**
Khesin, Boris A. *see* **Frenkel, Igor B., 98c:22018**
Kriegl, Andreas (*with* Michor, Peter W.) Regular infinite-dimensional Lie groups. (English summary) **98k:22081**
Lempert, László The problem of complexifying a Lie group. **98d:22020**
Malliavin, Paul Distributions invariantes sur les groupes de chemins. [Invariant distributions on path groups] (*see* **98d:00028**)
Michor, Peter W. *see* **Kriegl, Andreas, 98k:22081**
Morchio, G. *see* **Booss, Bernhelm; et al., 98d:58186**
Neretin, Yu. A. ★ Categories of symmetries and infinite-dimensional groups. **98b:22003**
Paycha, S. (*with* Arnaudon, Marc) Projections de mouvements browniens régularisés via l'action d'un groupe de Lie hilbertien. (English and French summaries) [Projections of regularized Brownian motions via the action of a Hilbert-Lie group] **98b:60139**
Robart, Thierry (*with* Kamran, Niky) Sur la théorie locale des pseudogroupes de transformations continus infinis. I. [Local theory of infinite-dimensional continuous transformation pseudogroups. I] **98h:58208**
Sergeev, A. G. On twistor quantization of loop spaces and Kähler manifolds. (English summary) **98d:58076**
Shigekawa, Ichiro (*with* Taniguchi, Setsuo) A Kähler metric on a based loop group and a covariant differentiation. **98j:58009**
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Taniguchi, Setsuo *see* **Shigekawa, Ichiro, 98j:58009**
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58B30 Noncommutative differential geometry and topology [see also 46L30, 46L87, 46L89]

Aghamohammadi, A. *see* **Khorrami, Mohammad; et al., 98f:58027**
de Azcárraga, José A. (*with* Kulish, Petr P.; Rodenas, Francisco) Twisted h-spacetimes and invariant equations. (English summary) **98i:58019**
Bimonte, G. (*with* Ercolessi, E.; Landi, Giovanni; Lizzi, Fedele; Sparano, G.; Teotonio-Sobrinho, Paulo) Lattices and their continuum limits. (English summary) **98b:58015**
— (*with* Ercolessi, E.; Landi, Giovanni; Lizzi, Fedele; Sparano, G.; Teotonio-Sobrinho, Paulo) Noncommutative lattices and their continuum limits. (English summary) **98b:58016**
Borowiec, Andrzej (*with* Kharchenko, Vladislav K.) First order optimum calculi. (English and Polish summaries) **98i:58020**
Bouwknegt, Peter (*with* McCarthy, James G.; van Nieuwenhuizen, Peter) Fusing the coordinates of quantum superspace. (English summary) **98f:58022**
Brodzki, Jacek (*with* Connes, Alain; Ellwood, D.) Polarized modules and Fredholm modules. (English, Russian and Ukrainian summaries) **98i:58021**
Brzeziński, Tomasz Translation map in quantum principal bundles. (English summary) **98e:58021**
— A note on coalgebra gauge theory. (English summary) **98j:58010**
Carow-Watamura, Ursula (*with* Watamura, Satoshi; Hebecker, Arthur; Schlieker, Michael; Weich, Wolfgang) Bicovariant differential calculus on quantum groups and wave mechanics. (English summary) **98g:58006**
— (*with* Watamura, Satoshi) Chirality and Dirac operator on noncommutative sphere. (English summary) **98f:58023**
Chamseddine, Ali H. (*with* Connes, Alain) Universal formula for noncommutative geometry actions: unification of gravity and the standard model. (English summary) **98h:58009**
Cho, Sunggoo (*with* Park, Kwang Sung) Linear connections on graphs. (English summary) **98j:58011**
Choi, Nan-Young *see* **Chung, Won-Sang; et al., 98a:58011**
Chryssomalakos, Chryssomalis Remarks on quantum integration. (English summary) **98k:58010**
Chung, Won-Sang (*with* Kang, Hye-Jung; Choi, Nan-Young) Theory of q-deformed forms. I. q-deformed alternating tensor and q-deformed wedge product. (English summary) **98a:58011**
— Theory of q-deformed forms. II. q-deformed differential forms and q-deformed Hamilton equation. (English summary) **98a:58012**
— Theory of q-deformed forms. III. q-deformed Hodge star, inner product, adjoint operator of exterior derivative, and self-dual Yang-Mills equation. (English summary) **98a:58013**
Connes, Alain Géométrie non commutative et physique quantique. [Noncommutative geometry and quantum physics] **98m:58005**
— Non-commutative geometry and physics. **98g:58007**
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Wulkenhaar, Raimar *see* **Matthes, Rainer; et al., 98f:46060**
(Zakrzewski, Stanisław) *see* **Quantum groups and quantum spaces, 98f:00028**

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58B99 None of the above, but in this section

Kriegl, Andreas (*with* Michor, Peter W.) Product preserving functors of infinite-dimensional manifolds. (English summary) **98c:58009**
Michor, Peter W. *see* **Kriegl, Andreas, 98c:58009**

Items with secondary classifications in 58B99

Asada, Akira Vector analysis on Sobolev spaces. (English summary) **98g:58014**
Azagra, Daniel Diffeomorphisms between spheres and hyperplanes in infinite-dimensional Banach spaces. (English summary) **98g:46014**
Daletskiĭ, Yurii L'vovich Differential-geometric structures in operads. (Russian. English and Ukrainian summaries) **98h:18008**

58Cxx Calculus on manifolds; nonlinear operators [see also 47Hxx]

58C05 Real-valued functions

Items with secondary classifications in 58C05

Borwein, Jonathan M. (*with* Moors, Warren B.; Wang, Xianfu) Lipschitz functions with prescribed derivatives and subderivatives. **98j:49019**

Ferrarotti, Massimo (*with* Wilson, Leslie Charles) Generalized Hestenes' lemma and extension of functions. **98h:58018**

Moors, Warren B. *see* **Borwein, Jonathan M.; et al., 98j:49019**

Wang, Xianfu *see* **Borwein, Jonathan M.; et al., 98j:49019**

Wilson, Leslie Charles *see* **Ferrarotti, Massimo, 98h:58018**

58C06 Set valued and function-space valued mappings [see also 47H04, 54C60]

Silin, D. B. On set-valued differentiation and integration. (English summary) **98f:58030**

Items with secondary classifications in 58C06

Bagh, Adib (*with* Wets, Roger J.-B.) Convergence of set-valued mappings: equi-outer semicontinuity. (English summary) **98f:54019**

Borisovich, Yu. G. A generalized degree of multivalued mappings and its applications to nonlinear problems. **98j:47141**

Diamond, Phillip Morris (*with* Kloeden, Peter E.; Rubinov, Aleksandr M.; Vladimirov, A. A.) Comparative properties of three metrics in the space of compact convex sets. (English summary) **98m:52004**

Dinh Thê Lục Generalized monotone set valued maps and support bifunctions. (English summary) **98e:49037**

Kloeden, Peter E. *see* **Diamond, Phillip Morris; et al., 98m:52004**

Mordukhovich, Boris S. (*with* Shao, Yongheng) Fuzzy calculus for coderivatives of multifunctions. **98m:49038**

— Coderivatives of set-valued mappings: calculus and applications. (*see* **98i:00031**)

— (*with* Shao, Yongheng) Stability of set-valued mappings in infinite dimensions: point criteria and applications. (English summary) **98a:49028**

Rubinov, Aleksandr M. *see* **Diamond, Phillip Morris; et al., 98m:52004**

Shao, Yongheng *see* **Mordukhovich, Boris S., 98a:49028** *and* **98m:49038**

Vladimirov, A. A. *see* **Diamond, Phillip Morris; et al., 98m:52004**

Wets, Roger J.-B. *see* **Bagh, Adib, 98f:54019**

Yang, Shu Lang Investigations on problems of multiple solutions to mapping equations. (Chinese. English and Chinese summaries) **98g:47056**

58C07 Continuity properties of mappings

Antman, Stuart S. Extensions of monotone mappings. (English and French summaries) **98a:58016**

58C10 Holomorphic maps [see also 32–XX]

Zhang, Wen Jun A Rouché-type theorem for complex Banach spaces. (Chinese. Chinese summary) **98j:58014**

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Khatskevich, V. A. (*with* Reich, Simeon; Shoikhet, David) Null points of holomorphic generators in the Hilbert ball. (English summary) **98c:47083**

— (*with* Reich, Simeon; Shoikhet, David) Ergodic methods for the construction of holomorphic retractions. (English summary) **98j:47130**

— (*with* Reich, Simeon; Shoikhet, David) Asymptotic behavior of solutions of evolution equations and the construction of holomorphic retractions. (English summary) **98k:47137**

Kim, Jeong-Heon Locations of fixed points of holomorphic maps. (English summary) **98j:47131**

Kuczumow, Tadeusz (*with* Reich, Simeon; Stachura, Adam) Holomorphic retracts of the open unit ball in the l_∞-product of Hilbert spaces. (English summary) **98b:46061**

Reich, Simeon *see* **Kuczumow, Tadeusz; et al., 98b:46061; Khatskevich, V. A.; et al., 98c:47083; 98j:47130** *and* **98k:47137**

Shoikhet, David *see* **Khatskevich, V. A.; et al., 98c:47083; 98j:47130** *and* **98k:47137**

Stachura, Adam *see* **Kuczumow, Tadeusz; et al., 98b:46061**

58C15 Implicit function theorems; global Newton methods

Azagra, Daniel (*with* Gómez Gil, Javier; Jaramillo, J. A.) Rolle's theorem and negligibility of points in infinite-dimensional Banach spaces. (English summary) **98h:58016**

Batsuren, S. On the inverse function theorem for Lipschitzian mappings. (English summary) **98a:58017**

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58C20 Differentiation theory (Gateaux, Fréchet, etc.) [see also 26Exx, 46G05]

Borwein, Jonathan M. (*with* Moors, Warren B.) Essentially smooth Lipschitz functions. (English summary) **98i:58028**

Giles, J. R. (*with* Sciffer, Scott) Fréchet directional differentiability and Fréchet differentiability. (English summary) **98a:58020**

Khan, Liaqat Ali[1] Mean value theorem in topological vector spaces. (English summary) **98k:58023**

Mel'nik, V. S. T-differentiable functionals and their critical points. (English summary) **98a:58021**

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Cao, Wei Ping (*with* Ma, Ji Pu) Local linearization of nonlinear maps. (Chinese. English and Chinese summaries) **98d:47146**

Demyanov, V. F. (*with* Pallaschke, Diethard) Point derivations for Lipschitz functions and Clarke's generalized derivative. (English summary) **98m:49036**

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Kriegl, Andreas Remarks on germs in infinite dimensions. (English summary) **98i:46040**

Künzle, Alfred F. Singular Hamiltonian systems and symplectic capacities. (English summary) **98e:58079**

Kutateladze, Semën Samsonovich On the subdifferential of a convex operator at a generalized point. (Russian. Russian summary) **98e:49041**

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58C25 Differentiable maps

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du Plessis, Andrew (*with* Gaffney, Terence; Wilson, Leslie Charles) Map-germs determined by their discriminants. **98k:58026**

Schmets, Jean (*with* Valdivia, Manuel) On the existence of continuous linear analytic extension maps for Whitney jets. (English summary) **98m:46028**
— (*with* Valdivia, Manuel) Analytic extension of non-quasi-analytic Whitney jets of Roumieu type. (English summary) **98g:46027**
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58C27 Singularities of differentiable maps [see also 14B05, 14E15, 32Sxx]

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— (*with* Ishikawa, Goo; Wilson, Leslie Charles) A criterion for finite topological determinacy of map-germs. **98i:58029**
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Cutkosky, Steven Dale (*with* Srinivasan, Hema) Equivalence and finite determinancy of mappings. **98d:13026**
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58C28 Catastrophes [see also 57R70, 58Exx]

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58C30 Fixed point theorems on manifolds[see also 47H10]

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Brezis, Haïm (*with* Nirenberg, Louis) Degree theory and BMO. II. Compact manifolds with boundaries. **98a:58024**
— Degree theory: old and new. **98d:58016**
Campos, Juan[2] *see* **Alonso, José Miguel, 98k:58027**
Geba, Kazimierz Degree for gradient equivariant maps and equivariant Conley index. **98h:58024**
Hatziafratis, T. (*with* Tsarpalias, A.) On the integral giving the degree of a map and a Rouché type theorem. (English summary) **98c:58014**
de la Llave, Rafael Invariant manifolds associated to nonresonant spectral subspaces. (English summary) **98f:58038**
(Mironescu, Petru) *see* **Brezis, Haïm, 98a:58024**
Nirenberg, Louis *see* **Brezis, Haïm, 98a:58024**
Tsarpalias, A. *see* **Hatziafratis, T., 98c:58014**

Items with secondary classifications in 58C30

Benkafadar, N. M. (*with* Gel′man, B. D.) On a local degree for a class of multi-valued vector fields in infinite-dimensional Banach spaces. (English summary) **98k:47118**
— (*with* Gel′man, B. D.) On the local degree for a class of multivalued fields. (Russian) **98k:47119**
Berkovits, Juha Some extensions of topological degree theory with applications to nonlinear problems. **98m:47101**
Gel′man, B. D. *see* **Benkafadar, N. M., 98k:47118** *and* **98k:47119**
Rybicki, Sławomir Applications of degree for S^1-equivariant gradient maps to variational nonlinear problems with S^1-symmetries. **98k:58077**
Skrypnik, Igor′V. Topological characteristics of fully nonlinear parabolic problems. **98m:35092**
Stepanov, Eugene Topological degree for systems of functional equations arising in control theory. **98j:47147**
Tarafdar, Enayet (*with* Watson, Peter Jonothan; Yuan, Xian-Zhi) Random coincidence degree theory with applications to random differential inclusions. (English summary) **98e:47113**
Valent, Tullio An abstract setting for boundary problems with affine symmetries. (English and Italian summaries) **98e:58069**
Watson, Peter Jonothan *see* **Tarafdar, Enayet; et al., 98e:47113**
Yuan, Xian-Zhi *see* **Tarafdar, Enayet; et al., 98e:47113**
Zabrejko, Petr Petrovich Rotation of vector fields: definition, basic properties, and calculation. (English summary) **98d:47145**
Zvyagin, V. G. The zero point index of a completely continuous perturbation of a Fredholm mapping that commutes with the action of a torus. (Russian) **98j:47142**

58C35 Integration on manifolds; measures on manifolds [see also 28Cxx]

Asada, Akira Vector analysis on Sobolev spaces. (English summary) **98g:58014**
Sobczyk, Garret Directed integration. (*see* **98f:15022**)

Items with secondary classifications in 58C35

Chikuse, Yasuko Invariant measures on Stiefel manifolds with applications to multivariate analysis. (English summary) (*see* **98e:62010**)
Dudek-Dyduch, Ewa (*with* Holly, Konstanty) The jump of the Laplacian on a submanifold. (English summary) **98k:58230**
Faina, Loris The parametric Weierstrass integral over a BV curve as a length functional. (English summary) **98i:49048**
Holly, Konstanty *see* **Dudek-Dyduch, Ewa, 98k:58230**
Mironov, A. D. (*with* Morozov, A. Yu.; Semenoff, Gordon W.) Unitary matrix integrals in the framework of the generalized Kontsevich model. (English summary) **98a:81199**
Morozov, A. Yu. *see* **Mironov, A. D.; et al., 98a:81199**
Müller, Stefan (*with* Šverák, Vladimír) Attainment results for the two-well problem by convex integration. (English summary) **98e:49004**
Semenoff, Gordon W. *see* **Mironov, A. D.; et al., 98a:81199**
Shardlow, Tony Inertial manifolds and linear multi-step methods. (English summary) **98f:65090**
Šverák, Vladimír *see* **Müller, Stefan, 98e:49004**

58C40 Spectral theory; eigenvalue problems [see also 47H12, 58E07]

Smyth, Brian (*with* Xavier, Frederico) Injectivity of local diffeomorphisms from nearly spectral conditions. **98b:58025**
Xavier, Frederico *see* **Smyth, Brian, 98b:58025**

58C50 Analysis on supermanifolds or graded manifolds

(Alfaro, Jorge) *see* **Guhr, Thomas, 98f:58039**
Guhr, Thomas Comment on: "The Itzykson-Zuber integral for U($m|n$)" [J. Math. Phys. **36** (1995), no. 6, 3085–3093; MR 97f:58018] by J. Alfaro, R. Medina and L. F. Urrutia. **98f:58039**
Khrennikov, Andrei A noncommutative analogue of functional superanalysis. (Russian. English and Russian summaries) **98g:58015**
(Medina, Ricardo) *see* **Guhr, Thomas, 98f:58039**
Schwarz, Albert S. (*with* Zaboronsky, Oleg) Supersymmetry and localization. (English summary) **98g:58016**
(Urrutia, Luis F.) *see* **Guhr, Thomas, 98f:58039**
Zaboronsky, Oleg *see* **Schwarz, Albert S., 98g:58016**

Items with secondary classifications in 58C50

Benci, Vieri Variational methods in the geometry of space-time. (Italian) **98h:58040**
Konechnyĭ, Anatoliĭ (*with* Schwarz, Albert S.) Geometry of $N = 1$ super Yang-Mills theory in curved superspace. (English summary) **98g:32011**
Schwarz, Albert S. *see* **Konechnyĭ, Anatoliĭ, 98g:32011**
Vaintrob, A. Yu. Normal forms of homological vector fields. **98b:58152**

58C99 None of the above, but in this section

Zhang, Ke Wei[1] On connected subsets of $M^{2\times 2}$ without rank-one connections. (English summary) **98b:58026**

Items with secondary classifications in 58C99

Karpushkin, Vladimir Nikolaevich Projectivization of zeros of parabolic polynomials. (Russian) **98m:35021**
Malta, Iaci (*with* Saldanha, Nicolau C.; Tomei, Carlos) Regular level sets of averages of Nemytskiĭ operators are contractible. (English summary) **98b:47077**
Saldanha, Nicolau C. *see* **Malta, Iaci; et al., 98b:47077**
Tomei, Carlos *see* **Malta, Iaci; et al., 98b:47077**

58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [see also 22E65, 57S05]

Agrachev, A. A. (*with* Gamkrelidze, R. V.) On orbits of groups of diffeomorphisms and flows. (Russian) **98b:58027**
Bloch, Anthony M. (*with* El Hadrami, Mohamed Ould; Flaschka, Hermann; Ratiu, Tudor S.) Maximal tori of some symplectomorphism groups and applications to convexity. (English summary) **98k:58029**
El Hadrami, Mohamed Ould *see* **Bloch, Anthony M.; et al., 98k:58029**
Flaschka, Hermann *see* **Bloch, Anthony M.; et al., 98k:58029**
Gamkrelidze, R. V. *see* **Agrachev, A. A., 98b:58027**
Ratiu, Tudor S. *see* **Bloch, Anthony M.; et al., 98k:58029**
Rybicki, Tomasz Commutators of C^r-diffeomorphisms acting along leaves. (English summary) **98f:58040**
— Isomorphisms between leaf preserving diffeomorphism groups. (English summary) **98g:58017**
— Pseudo-n-transitivity of the automorphism group of a geometric structure. (English summary) **98f:58041**

Items with secondary classifications in 58D05

Banyaga, Augustin ★ The structure of classical diffeomorphism groups. (English summary) **98h:22024**
(Ginzburg, Viktor L.) *see* **Gliklikh, Yurĭ E., 98e:58001**
Giulini, Domenico The group of large diffeomorphisms in general relativity. (English summary) **98d:58019**
Gliklikh, Yurĭ E. ★ Global analysis in mathematical physics. **98e:58001**
Guieu, Laurent Nombre de rotation, structures géométriques sur un cercle et groupe de Bott-Virasoro. (English and French summaries) [Rotation number, geometric structures on a circle and Bott-Virasoro group] **98b:22037**
Gümral, Hasan Lagrangian description, symplectic structure, and invariants of 3D fluid flow. (English summary) **98i:76003**
Hector, Gilbert Géométrie et topologie des espaces difféologiques. (English summary) [Geometry and topology of diffeological spaces] **98f:58008**

Hirai, Takeshi (*with* Shimomura, Hiroaki) Relations between unitary representations of diffeomorphism groups and those of the infinite symmetric group or of related permutation groups. **98k:22080**
Lempert, László The problem of complexifying a Lie group. **98d:22020**
Ovsienko, V. Yu. (*with* Roger, Claude) Extensions of the Virasoro group and the Virasoro algebra by means of modules of tensor densities on S^1. (Russian) **98c:17024**
Roger, Claude *see* **Ovsienko, V. Yu., 98c:17024**
Shimomura, Hiroaki *see* **Hirai, Takeshi, 98k:22080**
Yoshida, Kyo Instability of the motion of an ideal fluid contained in 2-sphere as a geodesic equation. (English summary) **98m:58004**

58D10 Spaces of imbeddings and immersions

Datta, Mahuya A homotopy classification of symplectic immersions. **98h:58025**
— Homotopy classification of strict contact immersions. (English summary) **98g:58018**
Hofer, Helmut (*with* Wysocki, K.; Zehnder, E.) Properties of pseudoholomorphic curves in symplectisation. IV. Asymptotics with degeneracies. (English summary) **98e:58030**
Ionel, Eleny-Nicoleta (*with* Parker, Thomas H.) The Gromov invariants of Ruan-Tian and Taubes. **98i:58038**
(Lorek, Wladyslav) *see* **McDuff, Dusa, 98j:58018**
Lu, Guang Cun Lagrangian embedding and the Weinstein conjecture on cotangent bundles. (Chinese. Chinese summary) **98i:58039**
McDuff, Dusa Lectures on Gromov invariants for symplectic 4-manifolds. **98j:58018**
Oh, Yong-Geun Fredholm-regularity of Floer's holomorphic trajectories on Kähler manifolds. (English summary) **98d:58017**
Parker, Thomas H. *see* **Ionel, Eleny-Nicoleta, 98i:58038**
Pawełczyk, Jacek Rigid string instantons are pseudo-holomorphic curves. (English summary) **98k:58030**
Tian, Gang Quantum cohomology and its associativity. **98k:58031**
Wysocki, K. *see* **Hofer, Helmut; et al., 98e:58030**
Ye, Rugang Filling by holomorphic curves in symplectic 4-manifolds. **98d:58018**
Zehnder, E. *see* **Hofer, Helmut; et al., 98e:58030**

Items with secondary classifications in 58D10

(Abreu, Miguel) *see* **Eliashberg, Yakov M., 98g:58055**
Audin, Michèle Cohomologie quantique. (French summary) [Quantum cohomology] **98h:58031**
de Bartolomeis, Paolo Complex and holomorphic structures, their singularities and their invariants. (Italian) **98i:53098**
Cieliebak, Kai Pseudo-holomorphic curves and Bernoulli shifts. (English summary) **98c:58055**
Eliashberg, Yakov M. Symplectic geometry of plurisubharmonic functions. (English summary) **98g:58055**
Fukaya, Kenji Topological field theory and Morse theory [translation of Sūgaku **46** (1994), no. 4, 289–307]. (*see* **98f:00033**)
Geiges, Hansjörg (*with* Gonzalo, Jesús) Topology and analysis of contact circles. **98a:53046**
Gonzalo, Jesús *see* **Geiges, Hansjörg, 98a:53046**
Grot, Norbert (*with* Rovelli, Carlo) Moduli-space structure of knots with intersections. (English summary) **98f:57010**
Hofer, Helmut (*with* Wysocki, K.; Zehnder, E.) Correction to: "A characterisation of the tight three-sphere" [Duke Math. J. **81** (1995), no. 1, 159–226 (1996); MR 97a:53043]. **98j:53037**
Kim, Bumsig On equivariant quantum cohomology. **98h:14013**
Klingenberg, Wilhelm Stability of the Bishop family of holomorphic discs. **98h:32027**
Klingenberg, Wilhelm, Jr. Moduli space of holomorphic discs with boundary. (English summary) **98i:58041**
Lalonde, François (*with* McDuff, Dusa) J-curves and the classification of rational and ruled symplectic 4-manifolds. (English summary) **98d:57045**
— New trends in symplectic geometry. (French summary) **98k:58036**
Ma, Renyi A remark on Hofer-Zehnder symplectic capacity in symplectic manifolds $M \times \mathbf{R}^{2n}$. (English summary) **98e:58080**
Makienko, P. M. Pinching deformations of rational maps. (*see* **98f:58004**)
McDuff, Dusa *see* **Lalonde, François, 98d:57045**
Oh, Yong-Geun Gromov-Floer theory and disjunction energy of compact Lagrangian embeddings. (English summary) **98k:58048**
Pérez, Joaquín On singly-periodic minimal surfaces with planar ends. (English summary) **98b:53009**
Rovelli, Carlo *see* **Grot, Norbert, 98f:57010**
Sikorav, Jean-Claude Singularities of J-holomorphic curves. **98k:58060**
Voisin, Claire A mathematical proof of a formula of Aspinwall and Morrison. (English summary) **98h:14069**
Wysocki, K. *see* **Hofer, Helmut; et al., 98j:53037**
Zehnder, E. *see* **Hofer, Helmut; et al., 98j:53037**

58D15 Manifolds of mappings [see also 54C35]

Hummel, Christoph ★ Gromov's compactness theorem for pseudo-holomorphic curves. (English summary) **98k:58032**
Kallel, Sadok (*with* Milgram, R. James) The geometry of the space of holomorphic maps from a Riemann surface to a complex projective space. **98m:58014**
Kaloshin, Vadim Yu. Prevalence in spaces of finitely smooth mappings. (Russian. Russian summary) **98i:58040**
Klingenberg, Wilhelm, Jr. Moduli space of holomorphic discs with boundary. (English summary) **98i:58041**
Manoharan, Palanivel A characterization for spaces of sections. (English summary) **98f:58042**
Milgram, R. James *see* **Kallel, Sadok, 98m:58014**

Items with secondary classifications in 58D15

Bondioli, Cristiana Sobolev spaces of integer order on compact homogeneous manifolds and invariant differential operators. (English and Italian summaries) **98f:46029**
Eguchi, Tohru (*with* Hori, Kentaro; Xiong, Chuan-Sheng) Quantum cohomology and Virasoro algebra. (English summary) **98j:14035**
Hebey, Emmanuel ★ Sobolev spaces on Riemannian manifolds. **98k:46049**
Hori, Kentaro *see* **Eguchi, Tohru; et al., 98j:14035**
Hurtubise, Jacques Holomorphic maps of a Riemann surface into a flag manifold. (English summary) **98e:58057**
Kambe, Tsutomu *see* **Suzuki, Katsuhiro, 98k:76022**
(Lorek, Wladyslav) *see* **McDuff, Dusa, 98j:58018**
McDuff, Dusa Lectures on Gromov invariants for symplectic 4-manifolds. **98j:58018**
Papatriantafillou, Maria H. The de Rham complex in function spaces. **98i:58009**
Skrzypczak, Leszek Besov spaces on symmetric manifolds—the atomic decomposition. (English summary) **98k:46032**
Suzuki, Katsuhiro (*with* Kambe, Tsutomu) A Riemannian geometrical analysis of the filament equation. (English summary) **98k:76022**
Taniguchi, Setsuo Almost complex structures on path groups. (English summary) **98f:58017**
Xiong, Chuan-Sheng *see* **Eguchi, Tohru; et al., 98j:14035**

58D17 Manifolds of metrics (esp. Riemannian)

Giulini, Domenico The group of large diffeomorphisms in general relativity. (English summary) **98d:58019**
Maeda, Yoshiaki (*with* Rosenberg, Steven; Tondeur, Philippe) Minimal orbits of metrics. (English summary) **98j:58019**
Rosenberg, Steven *see* **Maeda, Yoshiaki; et al., 98j:58019**
Salomonsen, Gorm On the completions of the spaces of metrics on an open manifold. II. (English summary) **98j:58020**
Sanmartín-Carbon, E. The manifold of bundle-like metrics of a Riemannian foliation. **98i:58042**
Tondeur, Philippe *see* **Maeda, Yoshiaki; et al., 98j:58019**

Items with secondary classifications in 58D17

Chang, Shun Cheng Compactness theorems for critical Riemannian 4-manifolds with integral bounds on curvature. (English summary) **98a:58042**
Maier, Stephan Generic metrics and connections on Spin- and Spin^c-manifolds. (English summary) **98i:58213**

58D19 Group actions and symmetry properties

Cencelj, Matija Differentiable slice in the loop space. (English summary) **98i:58043**
Eichhorn, Jürgen (*with* Heber, Gerd) The configuration space of gauge theory on open manifolds of bounded geometry. (English summary) **98d:58020**
Gaeta, Giuseppe (*with* Morando, Paola) Michel theory of symmetry breaking and gauge theories. (English summary) **98j:58021**
Heber, Gerd *see* **Eichhorn, Jürgen, 98d:58020**
Kanai, M. A new approach to the rigidity of discrete group actions. **98a:58025**
Landsman, N. P. (*with* Wren, K. K.) Constrained quantization and θ-angles. (English summary) **98h:58026**
Loll, R. (*with* Mourão, José; Tavares, J. N.) Symplectic reduction via complex group actions. (English summary) **98f:58043**
Morando, Paola *see* **Gaeta, Giuseppe, 98j:58021**
Mourão, José *see* **Loll, R.; et al., 98f:58043**
Qian, Nantian Infinitesimal rigidity of higher rank lattice actions. (English summary) **98c:58015**
Shabanov, Sergei V. A transition amplitude on the gauge orbit space. (English summary) **98f:58044**
Tavares, J. N. *see* **Loll, R.; et al., 98f:58043**
Wren, K. K. *see* **Landsman, N. P., 98h:58026**

Items with secondary classifications in 58D19

Asorey, Manuel (*with* Falceto, Fernando; López García, José Luis; Luzon, Gloria) Vacuum structure of $(2+1)$-dimensional gauge theories. (English summary) **98f:58045**
Bates, Larry M. (*with* Lerman, Eugene) Proper group actions and symplectic stratified spaces. (English summary) **98i:58085**
Bor, Gil (*with* Segert, Jan) Symmetric instantons and the ADHM construction. (English summary) **98g:53044**
Carey, A. L. (*with* Murray, Michael K.) Mathematical remarks on the cohomology of gauge groups and anomalies. (English summary) **98f:81311**
Falceto, Fernando *see* **Asorey, Manuel; et al., 98f:58045**
Fujimura, Masayo *see* **Nishizawa, Kiyoko, 98i:58197**
Kim, In-Sook Extensions of the Borsuk-Ulam theorem. (English summary) **98f:55003**
Labastida, J. M. F. (*with* Mariño, Marcos) Twisted $N = 2$ supersymmetry with central charge and equivariant cohomology. (English summary) **98g:58023**
Lerman, Eugene *see* **Bates, Larry M., 98i:58085**
López García, José Luis *see* **Asorey, Manuel; et al., 98f:58045**
Luzon, Gloria *see* **Asorey, Manuel; et al., 98f:58045**
Mariño, Marcos *see* **Labastida, J. M. F., 98g:58023**
Murray, Michael K. *see* **Carey, A. L., 98f:81311**
Nishizawa, Kiyoko (*with* Fujimura, Masayo) Moduli spaces of maps with two critical points. (English summary) **98i:58197**
Segert, Jan *see* **Bor, Gil, 98g:53044**
Shabanov, Sergei V. 2D Yang-Mills theories, gauge orbit spaces and the path integral quantization. (English summary) **98c:58021**

58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx]

Albeverio, Sergio (*with* Sengupta, Ambar) A mathematical construction of the non-abelian Chern-Simons functional integral. (English summary) **98j:58022**
Ashtekar, Abhay (*with* Lewandowski, Jerzy; Marolf, Donald; Mourão, José; Thiemann, Thomas) SU(N) quantum Yang-Mills theory in two dimensions: a complete solution. (English summary) **98i:58044**
Baez, John Carlos (*with* Sawin, Stephen F.) Functional integration on spaces of connections. (English summary) **98h:58027**
Becker, Claas (*with* Sengupta, Ambar) Sewing Yang-Mills measures and moduli spaces over compact surfaces. (English summary) **98k:58033**
Blau, Matthias (*with* Thompson, George) Localization and diagonalization: a review of functional integral techniques for low-dimensional gauge theories and topological field theories. (English summary) **98j:58023**
Budzyński, Robert J. (*with* Kondracki, Witold) On the existence of the functional measure for 2D Yang-Mills theory. (English summary) **98d:58021**
Kondracki, Witold *see* **Budzyński, Robert J., 98d:58021**
Lewandowski, Jerzy *see* **Ashtekar, Abhay; et al., 98i:58044**
Marolf, Donald *see* **Ashtekar, Abhay; et al., 98i:58044**
Menotti, Pietro (*with* Peirano, Pier Paolo) Diffeomorphism invariant measure for finite-dimensional geometries. (English summary) **98i:58045**
Mourão, José *see* **Ashtekar, Abhay; et al., 98i:58044**
Peirano, Pier Paolo *see* **Menotti, Pietro, 98i:58045**
Sawin, Stephen F. *see* **Baez, John Carlos, 98h:58027**
Sengupta, Ambar Yang-Mills on surfaces with boundary: quantum theory and symplectic limit. (English summary) **98i:58046**
— *see also* **Albeverio, Sergio, 98j:58022** *and* **Becker, Claas, 98k:58033**
Thiemann, Thomas *see* **Ashtekar, Abhay; et al., 98i:58044**
Thompson, George *see* **Blau, Matthias, 98j:58023**
Toh, T.-C. A promeasure on the space of Ashtekar connection 1-forms. (English summary) **98d:58022**

Items with secondary classifications in 58D20

Hsu, Elton P. Logarithmic Sobolev inequalities on path spaces over Riemannian manifolds. (English summary) **98i:58249**
Landsman, N. P. (*with* Wren, K. K.) Constrained quantization and θ-angles. (English summary) **98h:58026**
Léandre, Rémi Invariant Sobolev calculus on the free loop space. (English summary) **98a:60077**
— Stochastic cohomology of the frame bundle of the loop space. (English summary) **98m:58147**
Lewandowski, Jerzy Volume and quantizations. (English summary) **98g:83043**
Lyudkovskiĭ, S. V. Measurability of representations of infinite-dimensional groups. (Russian) **98b:22039**
Storchak, S. N. Rheonomic homogeneous point transformations and reparametrization of path integrals over quasimeasures. (Russian. English and Russian summaries) **98j:81194**
Wren, K. K. *see* **Landsman, N. P., 98h:58026**

58D25 Equations in function spaces; evolution equations [see also 34Gxx, 35K22, 35R15, 47H15]

Items with secondary classifications in 58D25

Calogero, Francesco Integrable nonlinear evolution equations in multidimensions. (English summary) **98h:35185**
Hieber, Matthias (*with* Prüss, Jan) Heat kernels and maximal L^p-L^q estimates for parabolic evolution equations. (English summary) **98k:34096**
Prüss, Jan *see* **Hieber, Matthias, 98k:34096**
Schuchman, Vladimir Abnormal solutions of evolution equations. (English summary) **98g:34102**
Song, Degong (*with* Zhu, Guang Tian) Classical time dependent solution for neutron transport in a slab with generalized boundary conditions. (English summary) **98k:82208**
Temam, Roger ★ Infinite-dimensional dynamical systems in mechanics and physics. (English summary) **98b:58056**
Zhu, Guang Tian *see* **Song, Degong, 98k:82208**

58D27 Moduli problems for differential geometric structures

Bryan, Jim (*with* Sanders, Marc) The rank stable topology of instantons of $\overline{\mathbf{CP}}^2$. (English summary) **98b:58028**
Diaconescu, Duiliu-Emanuel D-branes, monopoles and Nahm equations. (English summary) **98m:58015**
Fuchs, Jürgen The singularity structure of the Yang-Mills configuration space. (English summary) **98e:58031**
Gibbons, Gary W. The Sen conjecture for distinct fundamental monopoles. (English summary) **98j:58024**
Groisser, David The L^2 metric in gauge theory: an introduction and some applications. (English summary) **98h:58028**
Houghton, Conor J. (*with* Manton, Nicholas S.; Sutcliffe, Paul M.) Rational maps, monopoles and skyrmions. (English summary) **98m:58016**
Inami, Takeo (*with* Ueno, Tatsuya; Kanno, Hiroaki) Higher-dimensional WZW model on Kähler manifold and toroidal Lie algebra. **98i:58047**
Izeki, Hiroyasu The Teichmüller distance on the space of flat conformal structures. (English summary) **98k:58034**
Jarvis, Stuart (*with* Norbury, Paul) Compactification of hyperbolic monopoles. (English summary) **98k:58035**
Jeffrey, Lisa C. Quantum field theory, equivariant cohomology, symplectic geometry and moduli spaces of vector bundles on Riemann surfaces. **98h:58029**
Kanno, Hiroaki *see* **Inami, Takeo; et al., 98i:58047**
Lalonde, François New trends in symplectic geometry. (French summary) **98k:58036**
Manton, Nicholas S. *see* **Houghton, Conor J.; et al., 98m:58016**
Matsunaga, Hiromichi The stable topology of moduli spaces of periodic instantons. **98a:58026**
Mrowka, Tomasz (*with* Ozsváth, Peter; Yu, Baozhen) Seiberg-Witten monopoles on Seifert fibered spaces. **98m:58017**
Murray, Michael K. A note on the $(1, 1, \cdots, 1)$ monopole metric. (English summary) **98g:58019**
Nagatomo, Yasuyuki (*with* Nitta, Takashi) Moduli of 1-instantons on $G_2(\mathbf{C}^{n+2})$. (English summary) **98d:58023**
Nitta, Takashi *see* **Nagatomo, Yasuyuki. 98d:58023**
Norbury, Paul *see* **Jarvis, Stuart, 98k:58035**
Ozsváth, Peter *see* **Mrowka, Tomasz; et al., 98m:58017**
Park, Jae-Suk Monads and D-instantons. (English summary) **98i:58048**
Sanders, Marc *see* **Bryan, Jim, 98b:58028**
Schweigert, Christoph On moduli spaces of flat connections with non-simply connected structure group. (English summary) **98h:58030**
Sengupta, Ambar The moduli space of Yang-Mills connections over a compact surface. (English summary) **98d:58024**
Sutcliffe, Paul M. *see* **Houghton, Conor J.; et al., 98m:58016**
Teleman, Andrei Non-abelian Seiberg-Witten theory and stable oriented pairs. **98i:58049**
Ueno, Tatsuya *see* **Inami, Takeo; et al., 98i:58047**
Witten, Edward The Verlinde algebra and the cohomology of the Grassmannian. (English summary) **98c:58016**
Yu, Baozhen *see* **Mrowka, Tomasz; et al., 98m:58017**

Items with secondary classifications in 58D27

Anselmi, Damiano Topological field theory and physics. (English summary) **98b:58029**
— On field theory quantization around instantons. (English summary) **98i:81248**
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58D99 None of the above, but in this section

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— *see also* **Serra, Enrico; et al., 98c:58131** *and* **Habets, Patrick; et al., 98i:35060**
Tarantello, Gabriella *see* **Badiale, Marino, 98f:35049**
Terracini, Susanna *see* **Serra, Enrico; et al., 98c:58131** *and* **Arioli, G.; et al., 98d:58150**
Terziyan, Stepan A. A note on Palais-Smale condition and mountain-pass principle for locally Lipschitz functionals. (English summary) **98d:49031**
Troestler, Christophe (*with* Willem, Michel) Nontrivial solution of a semilinear Schrödinger equation. (English summary) **98i:35034**
Tsachev, Tsvetomir J. *see* **Ribarska, N. K.; et al., 98h:49020**
Tzeng, Shyuh-yaur *see* **Chen, Chao-Nien, 98e:34092**
Vogel, Thomas I. On constrained extrema. (English summary) **98a:49039**
Wang, Qi (*with* Wang, Zhi Qiang[1]; Shi, Jiu-Yu) Subharmonic oscillations with prescribed minimal period for a class of Hamiltonian systems. **98a:34045**
Wang, Zhi Qiang[1] Nonradial solutions of nonlinear Neumann problems in radially symmetric domains. **98e:35075**
— *see also* **Wang, Qi; et al., 98a:34045; Bartsch, Thomas, 98g:58143** *and* **98g:58144**
Willem, Michel *see* **Smets, D., 98e:34080** *and* **Troestler, Christophe, 98i:35034**
Williams, Graham H. *see* **Belov, S. Ya.; et al., 98d:34060**
Wu, Shaoping *see* **Coti Zelati, V.; et al., 98g:34073**
Wu, Siye *see* **Mathai, Varghese, 98i:58219**
Xavier, João Batista de Mendonça (*with* Miyagaki, Olimpio Hiroshi) Remarks on a resonant problem with an unbounded nonlinearity. **98f:35059**
Xu, Yuan-Tong Subharmonic solutions for convex nonautonomous Hamiltonian systems. **98c:58132**
Yatsik, V. V. *see* **Shestopalov, V. P.**
Zhang, Gui Yi Neumann boundary value problems for Laplace equations with critical growth. (Chinese. English and Chinese summaries) **98e:35077**
Zhang, Shiqing Multiple closed orbits of fixed energy for N-body-type problems with gravitational potentials. (English summary) **98e:70005**
Zhao, Pei Hao (*with* Zhong, Cheng Kui) Multiplicity of positive solutions to nonlinear elliptic equations. (Chinese. English and Chinese summaries) **98f:35060**
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Zhong, Cheng Kui A generalization of Ekeland's variational principle and application to the study of the relation between the weak P.S. condition and coercivity. **98j:49036**
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58E07 Abstract bifurcation theory

Bartsch, Thomas Bifurcation of stationary and heteroclinic orbits for parametrized gradient-like flows. **98c:58025**
Borisovich, A. Yu. A functional-operator method for investigating bifurcations in the equivariant Plateau problem. (Russian. Russian summary) **98g:58026**
Chiappinelli, Raffaele An estimate on the eigenvalues in bifurcation for gradient mappings. **98h:58039**
Furter, J. E. Geometric path formulation for bifurcation problems. **98d:58032**
Huang, Wenzao *see* **Li, Tie Cheng[2], 98i:58061**
Li, Tie Cheng[2] (*with* Huang, Wenzao) A bifurcation theorem for critical points of variational equation. **98i:58061**
Lu, Bai Nian Bifurcation and global attractors of a mean-field equation for the Ising model with Glauber dynamics. (English summary) **98a:58035**
Seydel, Rüdiger On a class of bifurcation test functions. (English summary) **98e:58044**

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Aston, Philip J. (*with* Spence, Alastair; Wu, Wei[1]) Hopf bifurcation near a double singular point. (English summary) **98d:58127**
Drábek, Pavel (*with* Huang, Yin Xi) Positive solutions and bifurcation problems for some quasilinear elliptic equations in $\mathbf{R}^N$. **98m:35054**
Fitzpatrick, Patrick M. (*with* Pejsachowicz, Jacobo) Complement of a mapping at a singular point of maximal rank. (Russian) **98j:47145**
Gheorghiu, Călin Ioan (*with* Tămăşan, Alexandru) On the bifurcation of the null solutions of some boundary value problems. (English summary)
Huang, Yin Xi *see* **Drábek, Pavel, 98m:35054**
Iannelli, Angela Abstract approximation of Hopf bifurcation. (Italian summary) **98c:65093**
Nii, Shunsaku An extension of the stability index for travelling-wave solutions and its application to bifurcations. (English summary) **98b:35093**
Pejsachowicz, Jacobo *see* **Fitzpatrick, Patrick M., 98j:47145**
Ruf, Bernhard Singularity theory and bifurcation phenomena in differential equations. **98a:58023**
Sallam, M. H. Generalized simple eigenvalues and bifurcation for a linked multiparameter eigenvalue problem. **98c:47074**
Scheel, Arnd Subcritical bifurcation to infinitely many rotating waves. (English summary) **98j:35096**
Shen, Yun Qiu Computation of a simple bifurcation point using one singular value decomposition nearby. (English and German summaries) **98h:65022**
Shin, Chang Eon Time-optimal bang-bang trajectories using bifurcation result. (English summary) **98k:49008**
Spence, Alastair *see* **Aston, Philip J.; et al., 98d:58127**
Stavrakakis, Nikos M. Global bifurcation results for semilinear elliptic equations on $\mathbf{R}^N$: the Fredholm case. (English summary) **98m:35056**
Stuart, C. A. Bifurcation from the essential spectrum. **98f:47070**
Taira, Kazuaki (*with* Umezu, Kenichiro) Bifurcation for nonlinear elliptic boundary value problems. III. (English summary) **98i:35067c**
— Bifurcation for nonlinear elliptic boundary value problems. I. (English summary) **98i:35067a**
— (*with* Umezu, Kenichiro) Bifurcation for nonlinear elliptic boundary value problems. II. (English summary) **98i:35067b**
Tămăşan, Alexandru *see* **Gheorghiu, Călin Ioan**
Umezu, Kenichiro *see* **Taira, Kazuaki, 98i:35067b** *and* **98i:35067c**
Ward, James Robert, Jr. Global bifurcation of periodic solutions to ordinary differential equations. (English summary) **98m:34084**
Wu, Wei[1] *see* **Aston, Philip J.; et al., 98d:58127**
Ye, Ruisong The numerical computation of symmetry-breaking Takens-Bogdanov points. (English summary) **98k:65042**

58E09 Group-invariant bifurcation theory

Ize, Jorge (*with* Vignoli, Alfonso) Equivariant degree for abelian actions. II. Index computations. **98k:58049**
Vignoli, Alfonso *see* **Ize, Jorge, 98k:58049**

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Furter, J. E. Geometric path formulation for bifurcation problems. **98d:58032**
Gomes, M. Gabriela M. (*with* Stewart, Ian N.) Symmetry of generic bifurcations in cubic domains. (English summary) **98g:58124**
Healey, Timothy J. *see* **Whalen, Timothy M., 98c:73057**
Jones, Mark Christopher Wynne Universal unfoldings of group invariant equations which model second and third harmonic resonant capillary-gravity waves. (English summary) **98a:76009**
Krawcewicz, W. (*with* Vivi, P.; Wu, Jian Hong) Computation formulae of an equivariant degree with applications to symmetric bifurcations. (English summary) **98h:55005**
Maier-Paape, Stanislaus ★ Selected methods for partial differential equations with symmetry. **98a:58174**
Marzantowicz, Wacław Equivariant category of the free part of a G-manifold and of the sphere of spherical harmonics. (English summary) **98i:55005**
Stewart, Ian N. *see* **Gomes, M. Gabriela M., 98g:58124**
Vivi, P. *see* **Krawcewicz, W.; et al., 98h:55005**
Whalen, Timothy M. (*with* Healey, Timothy J.) Free vibration analysis of rotating nonlinearly elastic structures with symmetry: an efficient group-equivariance approach. (English summary) **98c:73057**
Wu, Jian Hong *see* **Krawcewicz, W.; et al., 98h:55005**
Ye, Ruisong The numerical computation of symmetry-breaking Takens-Bogdanov points. (English summary) **98k:65042**

58E10 Applications to the theory of geodesics (problems in one independent variable)

Antonacci, Flavia (*with* Sampalmieri, Rosella) On a class of geodesically connected Lorentzian manifolds. (English summary) **98e:58045**
— (*with* Sampalmieri, Rosella) Some results about geodesics on Lorentzian manifolds of splitting type. **98k:58050**
Bahri, Abbas (*with* Taimanov, Iskander A.) Periodic orbits in magnetic fields and Ricci curvature of Lagrangian systems. **98k:58051**
Balakrishnan, Radha (*with* Blumenfeld, Raphael) Transformation of general curve evolution to a modified Belavin-Polyakov equation. (English summary) **98k:58052**
Bartolo, Rossella (*with* Masiello, Antonio) On the existence of infinitely many trajectories for a class of static Lorentzian manifolds like Schwarzschild and Reissner-Nordström space-times. **98b:58036**
— (*with* Masiello, Antonio) Morse theory for trajectories of Lagrangian systems on Riemannian manifolds with convex boundary. (English summary) **98a:58036**
Benci, Vieri (*with* Fortunato, Donato) Geodesics on space-time manifolds: a variational approach. **98g:58027**
— Variational methods in the geometry of space-time. (Italian) **98k:58040**
Blumenfeld, Raphael *see* **Balakrishnan, Radha, 98k:58052**
Buck, Gregory R. (*with* Simon, Jonathan K.) Energy and length of knots. **98f:58054**
Candela, Anna Maria Lightlike periodic trajectories in space-times. (English summary) **98c:58026**
— (*with* Salvatore, Addolorata) Light rays joining two submanifolds in space-times. (English summary) **98e:58046**
— Periodic trajectories in Lorentzian manifolds. **98i:58062**
Cartier, Pierre *see* **Dewitt-Morette, Cecile, 98k:58053**
De Cecco, Giuseppe (*with* Palmieri, Giuliana) p-energy of a curve on a set and on a Finslerian LIP-manifold. (Italian summary) **98e:58047**
Dewitt-Morette, Cecile (*with* Cartier, Pierre) Physics on and near caustics. (English summary) **98k:58053**
Diao, Yuanan (*with* Ernst, Claus Dieter; Janse van Rensburg, E. J.) In search of a good polygonal knot energy. (English summary) **98j:58027**
Ernst, Claus Dieter *see* **Diao, Yuanan; et al., 98j:58027**
Fiddelaers, P. *see* **Pauwels, E. J.; et al., 98a:58039**
Fortunato, Donato *see* **Benci, Vieri, 98g:58027**
Fu, Xiao Yong Asymptotic behavior of generalized anisotropic flows. (Chinese. English and Chinese summaries) **98m:58022**
Germinario, Anna Morse theory for light rays without nondegeneracy assumptions. (English summary) **98i:58063**
— On a Morse theory for light rays without nondegeneracy assumptions. **98j:58028**
Giannoni, Fabio (*with* Masiello, Antonio; Piccione, Paolo) A variational theory for light rays on Lorentz manifolds. (English and French summaries) **98e:58048**
— (*with* Masiello, Antonio; Piccione, Paolo) A variational theory for light rays in stably causal Lorentzian manifolds: regularity and multiplicity results. (English summary) **98e:58049**
— (*with* Majer, Pietro) On the effect of the domain on the number of orthogonal geodesic chords. (English summary) **98k:58054**
— A timelike extension of Fermat's principle in general relativity. Comparisons with the lightlike case. **98j:58029**

Giga, Mi-Ho (*with* Giga, Yoshikazu) Geometric evolution by nonsmooth interfacial energy. (English summary) **98k:58055**
Giga, Yoshikazu *see* **Giga, Mi-Ho, 98k:58055**
Hingston, Nancy On the lengths of closed geodesics on a two-sphere. (English summary) **98f:58055**
— On the equivariant Morse complex of the free loop space of a surface. (English summary) **98g:58028**
Janse van Rensburg, E. J. *see* **Diao, Yuanan; et al., 98j:58027**
Koiso, Norihito On the motion of a curve towards elastica. (English and French summaries) **98a:58037**
Lelko, S. G. Isoperimetric extremals of a turn on surfaces in the Euclidean space E^3. (Russian) **98a:58038**
Majer, Pietro *see* **Giannoni, Fabio, 98k:58054**
Masiello, Antonio Some results on the geodesic connectedness of Lorentzian manifolds. **98g:58029**
— Critical point theory and global Lorentzian geometry. **98j:58030**
— *see also* **Bartolo, Rossella, 98a:58036; 98b:58036; Giannoni, Fabio; et al., 98e:58048** *and* **98e:58049**
Morgenstern, Thomas Geometrical decomposition of the free loop space on a manifold with finitely many closed geodesics. (English summary) **98b:58037**
Palmieri, Giuliana *see* **De Cecco, Giuseppe, 98e:58047**
Pauwels, E. J. (*with* Fiddelaers, P.; Van Gool, L. J.) Geometry-driven evolution and functional optimization for curves. **98a:58039**
Perlick, Volker Fermat's principle, Morse theory and applications to the gravitational lens effect. **98j:58031**
Piccione, Paolo A variational theory for light rays in convex subsets of stably causal Lorentzian manifolds. **98k:58056**
— *see also* **Giannoni, Fabio; et al., 98e:58048** *and* **98e:58049**
Salvatore, Addolorata *see* **Candela, Anna Maria, 98e:58046**
Sampalmieri, Rosella *see* **Antonacci, Flavia, 98e:58045** *and* **98k:58050**
Sánchez, Miguel Some remarks on causality theory and variational methods in Lorenzian manifolds. **98m:58023**
Simon, Jonathan K. *see* **Buck, Gregory R., 98f:58054**
Stancu, Alina Self-similarity in the deformation of planar convex curves. (English summary) **98h:58042**
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Sussmann, Héctor J. A cornucopia of four-dimensional abnormal sub-Riemannian minimizers. (English summary) **98a:58040**
Taimanov, Iskander A. *see* **Bahri, Abbas, 98k:58051**
Van Gool, L. J. *see* **Pauwels, E. J.; et al., 98a:58039**

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Agrachev, A. A. (*with* Sarychev, A. V.) Abnormal sub-Riemannian geodesics: Morse index and rigidity. (English and French summaries) **98e:49047**
Auckly, David (*with* Sadun, Lorenzo) A family of Möbius invariant 2-knot energies. (English summary) **98i:57043**
Deckelnick, Klaus Weak solutions of the curve shortening flow. **98j:35110**
Jost, Jürgen (*with* Li-Jost, Xianqing; Peng, Xiao-Wei) Correction to: "Bifurcation of minimal surfaces in Riemannian manifolds" [Trans. Amer. Math. Soc. **347** (1995), no. 1, 51–62; MR 95e:58048]. **98b:58048**
Kitahara, Haruo ★ Some topics on Carnot-Caratheodory metrics. **98e:53069**
Li-Jost, Xianqing *see* **Jost, Jürgen; et al., 98b:58048**
Linnér, Anders Curve-straightening and the Palais-Smale condition. (English summary) **98k:58046**
Nabutovsky, Alexander Fundamental group and contractible closed geodesics. (English summary) **98d:53063**
Pansu, Pierre Differentiability of volume growth. **98m:53058**
Peng, Xiao-Wei *see* **Jost, Jürgen; et al., 98b:58048**
Sadun, Lorenzo *see* **Auckly, David, 98i:57043**
Sarychev, A. V. *see* **Agrachev, A. A., 98e:49047**
Yakovlev, E. I. On the existence of solutions to two-point boundary value problems for gyroscopic systems of relativistic type. (Russian. Russian summary) **98h:83010**

58E11 Critical metrics

Akutagawa, Kazuo Convergence for Yamabe metrics of positive scalar curvature with integral bounds on curvature. (English summary) **98c:58027**
Amici, Oriella (*with* Casciaro, Biagio; Francaviglia, Mauro) The second variation for non-linear gravitational Lagrangians. (English summary) **98m:58024**
Anderson, Michael T. Scalar curvature and geometrization conjectures for 3-manifolds. (English summary) **98e:58050**
— Extrema of curvature functionals on the space of metrics on 3-manifolds. **98a:58041**
Casciaro, Biagio *see* **Amici, Oriella; et al., 98m:58024**
Chang, Shun Cheng Compactness theorems for critical Riemannian 4-manifolds with integral bounds on curvature. (English summary) **98a:58042**
Chang, Sun-Yung Alice (*with* Yang, Paul C.) Determinants and extremal metrics in conformal geometry. **98k:58057**
Chave, Thierry (*with* Valent, Galliano) Compact extremal versus compact Einstein metrics. (English summary) **98d:58033**
Francaviglia, Mauro *see* **Amici, Oriella; et al., 98m:58024**
Gursky, Matthew J. Uniqueness of the functional determinant. (English summary) **98k:58058**
Hwang, Andrew D. (*with* Simanca, Santiago R.) Extremal Kähler metrics on Hirzebruch surfaces which are locally conformally equivalent to Einstein metrics. **98f:58056**
Knieper, Gerhard A second derivative formula of the Liouville entropy at spaces of constant negative curvature. (English summary) **98h:58043**
Koufogiorgos, Themis Contact strongly pseudo-convex integrable CR metrics as critical points. **98d:58034**
Lamontagne, François A critical metric for the L^2-norm of the curvature tensor on S^3. (English summary) **98d:58035**
LeBrun, Claude Yamabe constants and the perturbed Seiberg-Witten equations. (English summary) **98j:58032**
Sarnak, Peter Extremal geometries. **98a:58043**
Simanca, Santiago R. *see* **Hwang, Andrew D., 98f:58056**
Valent, Galliano *see* **Chave, Thierry, 98d:58033**
Yang, Paul C. *see* **Chang, Sun-Yung Alice, 98k:58057**

Items with secondary classifications in 58E11

Bourguignon, Jean-Pierre An introduction to geometric variational problems. (English summary) **98i:58058**
Morpurgo, Carlo Local extrema of traces of heat kernels on S^2. (English summary) **98b:58162**
Müller, Werner[1] *see* **Wendland, K., (98i:00036)**
Reznikov, A. G. Yamabe spectra. **98g:53073**
Shi, Wan-Xiong Ricci flow and the uniformization on complete noncompact Kähler manifolds. **98d:53099**
Wendland, K. (*with* Müller, Werner[1]) Critical metrics with respect to Ray-Singer analytic torsion and Quillen metric. (*see* **98i:00036**)

58E12 Applications to minimal surfaces (problems in two independent variables)

Angenent, S. B. (*with* Velázquez, Juan J. L.) Degenerate neckpinches in mean curvature flow. **98k:58059**
Dierkes, Ulrich (*with* Huisken, Gerhard) The N-dimensional analogue of the catenary: prescribed area. (English summary) **98e:58051**
Elliott, Charles M. (*with* Garcke, Harald) Existence results for diffusive surface motion laws. (English summary) **98h:58044**
Fang, Yi (*with* Hutchinson, John E.) Hessian energy and optimal parametrisations of surfaces. **98i:58064**
Garcke, Harald *see* **Elliott, Charles M., 98h:58044**
Ghoussoub, Nassif A note on the multiplicity of surfaces with prescribed constant mean curvature. **98j:58033**
Hildebrandt, Stefan (*with* Sauvigny, Friedrich) Minimal surfaces in a wedge. I. Asymptotic expansions. (English summary) **98d:58036**
Huisken, Gerhard *see* **Dierkes, Ulrich, 98e:58051**
Hutchinson, John E. *see* **Fang, Yi, 98i:58064**
Ivochkina, Nina M. (*with* Ladyzhenskaya, O. A.) Estimation of the second derivatives for surfaces evolving under the action of their principal curvatures. **98c:58028**
Kuwert, Ernst Weak limits in the free boundary problem for immersions of the disk which minimize a conformally invariant integral. **98b:58038**
Ladyzhenskaya, O. A. *see* **Ivochkina, Nina M., 98c:58028**
Lancaster, Kirk E. (*with* Siegel, David) Existence and behavior of the radial limits of a bounded capillary surface at a corner. (English summary) **98g:58030a**
— (*with* Siegel, David) Correction to: "Existence and behavior of the radial limits of a bounded capillary surface at a corner". **98g:58030b**
Narukawa, Kimiaki (*with* Suzuki, Takashi[1]) Oscillatory theorem and pendent liquid drops. (English summary) **98f:58057**
Ros, Antonio (*with* Souam, Rabah) On stability of capillary surfaces in a ball. (English summary) **98c:58029**
Ross, Marty The second variation of nonorientable minimal submanifolds. (English summary) **98a:58044**
Sauvigny, Friedrich *see* **Hildebrandt, Stefan, 98d:58036**
Sheng, Weimin Deforming convex hypersurfaces by the linear combination of the mean curvature and the square root of the scalar curvature. (English summary) **98i:58065**
Siegel, David *see* **Lancaster, Kirk E., 98g:58030a** *and* **98g:58030b**
Sikorav, Jean-Claude Singularities of J-holomorphic curves. **98k:58060**
Simon, Leon M. Theorems on the regularity and singularity of minimal surfaces and harmonic maps. **98h:58045**
Souam, Rabah *see* **Ros, Antonio, 98c:58029**
Suzuki, Takashi[1] *see* **Narukawa, Kimiaki, 98f:58057**
Tkachev, Vladimir G. External geometry of p-minimal surfaces. (English summary) **98k:58061**
Velázquez, Juan J. L. *see* **Angenent, S. B., 98k:58059**
Visintin, Augusto Motion by mean curvature and nucleation. (English and French summaries) **98f:58058**

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Abdel-All, N. H. (*with* Hussien, Rawya A.) Variation of curvatures and stability of hypersurfaces. (English summary) **98i:53082**
Bellettini, Giovanni (*with* Novaga, Matteo) Minimal barriers for geometric evolutions. (English summary) **98j:35083**
Choe, Jaigyoung Every stationary polyhedral set in $\mathbf{R}^n$ is area minimizing under diffeomorphisms. (English summary) **98e:49094**
Delladio, Silvano Minimizing functionals depending on surfaces and their curvatures: a class of variational problems in the setting of generalized Gauss graphs. (English summary) **98b:49029**
Duzaar, Frank (*with* Steffen, Klaus) The Plateau problem for parametric surfaces with prescribed mean curvature. (English summary) **98d:53011**
— (*with* Steffen, Klaus) Existence of hypersurfaces with prescribed mean curvature in Riemannian manifolds. (English summary) **98h:49049**
Fang, Yi ★ Lectures on minimal surfaces in $\mathbf{R}^3$. **98d:53012**
Fierro, F. (*with* Goglione, R.; Paolini, M.) Finite element minimization of curvature functionals with anisotropy. (English summary) **98c:65185**
Goglione, R. *see* **Fierro, F.; et al., 98c:65185**
Große-Brauckmann, Karsten Stable constant mean curvature surfaces minimize area. (English summary) **98e:53007**
Hildebrandt, Stefan Boundary value problems for minimal surfaces. (English summary) **98k:53009**
Hussien, Rawya A. *see* **Abdel-All, N. H., 98i:53082**

Lin, Fang Hua Complex Ginzburg-Landau equations and dynamics of vortices, filaments, and codimension-2 submanifolds. (English summary) **98k:35177**
Liu, Jia Quan *see* **Zhang, Gong Qing**, **98g:53075**
Mariani, M. C. (*with* Rial, D. F.) Solutions to the mean curvature equation by fixed point methods. (English summary) **98j:53013**
Morgan, Frank Compound soap bubbles, shortest networks, and minimal surfaces. (English summary) **98e:53008**
Novaga, Matteo *see* **Bellettini, Giovanni**, **98j:35083**
Nowak, Ivo Numerical finiteness results for minimal surfaces in three-dimensional space forms. (English summary) **98m:53014**
Paolini, M. *see* **Fierro, F.; et al.**, **98c:65185**
Reznikov, A. G. Quadratic equations in groups from the global geometry viewpoint. **98a:57004**
Rial, D. F. *see* **Mariani, M. C.**, **98j:53013**
Ritoré, Manuel Applications of compactness results for harmonic maps to stable constant mean curvature surfaces. **98m:53082**
Steffen, Klaus *see* **Duzaar, Frank**, **98d:53011** *and* **98h:49049**
Topping, Peter The optimal constant in Wente's L^∞ estimate. (English summary) **98k:35075**
Vernier-Piro, Stella Estimates for flows of nonparametric surfaces driven by mean curvature. (English and Polish summaries) **98f:35074**
Wang, Changyou Partial regularity for flows of H-surfaces. (English summary) **98j:35092**
Wente, Henry C. The Plateau problem for boundary curves with connectors. **98e:53010**
White, Brian Cabell Classical area minimizing surfaces with real-analytic boundaries. **98m:53018**
Willmore, T. J. Total mean curvature squared of surfaces. **98a:53097**
Yamaura, Yoshihiko On a radially symmetric minimal surface with non-empty free boundary. (English summary) (*see* **98c:00012**)
Zhang, Gong Qing (*with* Liu, Jia Quan) A Morse-theoretic approach to the prescribing Gaussian curvature problem. **98g:53075**

58E15 Application to extremal problems in several variables; Yang-Mills functionals [see also 81T13], etc.

Antoine, J.-P. (*with* Mahara, I.) Classical Yang-Mills-Dirac equations: qualitative analysis of some solutions with a noncompact symmetry group. (English summary) **98b:58039**
Arthur, Kieran (*with* Tchrakian, D. H.; Yang, Yisong) Topological and nontopological self-dual Chern-Simons solitons in a gauged O(3) σ model. (English summary) **98b:58040**
Aslanyan, A. M. Asymptotically flat solutions of the Bogomol′nyĭ equations with solvable gauge group. (Russian) **98f:58059**
Athanassenas, Maria Volume-preserving mean curvature flow of rotationally symmetric surfaces. (English summary) **98d:58037**
Belyakov, I. V. (*with* Stepin, A. M.) The extremal property of multidimensional Chebyshev mappings. (Russian) **98g:58031**
Bidaut-Véron, Marie-Françoise Rotationally symmetric hypersurfaces with prescribed mean curvature. (English summary) **98b:58041**
Chen, Yun Mei (*with* Shen, Chun Li) Monotonicity formula and small action regularity for Yang-Mills flows in higher dimensions. (English summary) **98c:58030**
Ding, Weiyue (*with* Jost, Jürgen; Li, Jia Yu[1]; Wang, Guofang) The differential equation $\Delta u = 8\pi - 8\pi he^u$ on a compact Riemann surface. (English summary) **98k:58062**
Ecker, Klaus Interior estimates and longtime solutions for mean curvature flow of noncompact spacelike hypersurfaces in Minkowski space. **98j:58034**
Fröhlich, Jürg (*with* Leupp, M.; Studer, Urban M.) A variational problem for a system of magnetic monopoles joined by Abrikosov vortices. (English summary) **98h:58046**
Guan, Bo Mean curvature motion of nonparametric hypersurfaces with contact angle condition. (English summary) **98a:58045**
Hoppe, Jens On the deformation of time harmonic flows. (*see* **98e:58003**)
Isobe, Takeshi Relaxed Yang-Mills functional over 4-manifolds. (English summary) **98e:58052**
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58E30 Variational principles

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— (*with* Motreanu, Dumitru; Panagiotopoulos, P. D.) Multiple solutions for a class of eigenvalue problems in hemivariational inequalities. **98f:47072**
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58Gxx Partial differential equations on manifolds; differential operators [see also 35–XX]

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— ★ Partial differential equations. III. (English summary) **98k:35001**

58G03 Elliptic equations on manifolds, general theory

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Padilla, Pablo The principal eigenvalue and maximum principle for second order elliptic operators on Riemannian manifolds. (English summary) **98e:58157**
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Yau, Shing-Tung A note on the distribution of critical points of eigenfunctions. **98h:58182**
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58G05 Differential complexes [see also 35Nxx]; elliptic complexes

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58G07 Relations with hyperfunctions

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— (*with* Zampieri, Giuseppe) On microfunctions at the boundary along CR manifolds. (English summary) **98a:58149**
Funakoshi, Shota The functorial construction of the sheaf of small 2-microfunctions. **98j:58104**
Ishimura, Ryuichi (*with* Okada, Yasunori) The micro-support of the complex defined by a convolution operator in tube domains. **98f:58181**
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Canas da Silva, A. (*with* Guillemin, Victor) On the Kostant multiplicity formula for group actions with non-isolated fixed points. **98a:58151**
Christiansen, T. (*with* Zworski, Maciej) Harmonic functions of polynomial growth on certain complete manifolds. (English summary) **98c:58161**
Dai, Xianzhe (*with* Zhang, Wei Ping[1]) Splitting of the family index. (English summary) **98d:58170**
Dessai, Anand (*with* Jung, Rainer) On the rigidity theorem for elliptic genera. (English summary) **98m:58130**
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Habermann, K. Harmonic symplectic spinors on Riemann surfaces. (English summary) **98j:58105**
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Hassell, Andrew (*with* Mazzeo, Rafe; Melrose, Richard B.) A signature formula for manifolds with corners of codimension two. (English summary) **98c:58163**
Jones, J. D. S. (*with* Westbury, Bruce W.) Algebraic K-theory, homology spheres, and the η-invariant. **98i:58217**
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58G11 Heat and other parabolic equation methods

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58G37 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [see also 35A22]

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58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds

58H05 Pseudogroups and differentiable groupoids [see also 22A22, 22E65]

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